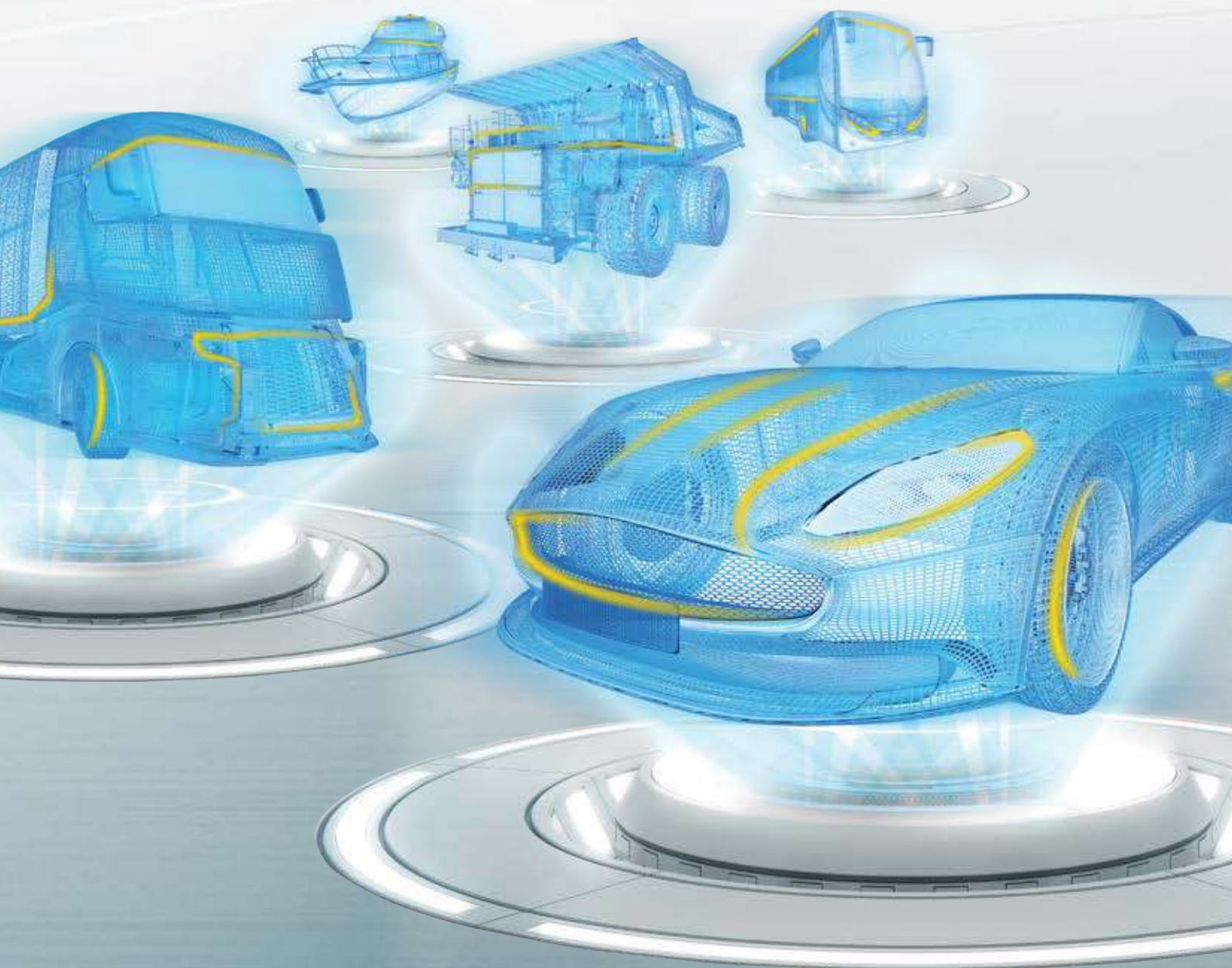




Technology with Vision

HELLA AUSTRALIA
AFTERMARKET CATALOGUE
2019-2020





WELCOME TO HELLA

Over 100 years ago, HELLA began with a vision of automotive innovation and safety, which remains at our core today.

With quality products developed and built using state-of-the-art technology, the road ahead looks bright.

NEED ASSISTANCE?

CONTACT HELLA CUSTOMER SERVICE:

TECHLINE 1800 061 729

FAX (03) 9583 1838

E-MAIL custservice@hella.com

ORDERS hellaorders@hella.com

ONLINE hella.com.au

- Expert professional advice from qualified auto-electricians
- Information on product availability and new releases
- Assistance with product selection and installation
- Online services include searchable automotive catalogue, store locator, newsletters and latest technology developments

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HELLA Australia

For over a century, HELLA has focussed on innovation, quality and optimum performance at a level beyond conventional industry standards. This no compromise approach has established HELLA as a trusted partner for the world's leading vehicle manufacturers and its aftermarket expertise has ensured HELLA is one of the top forty automotive suppliers in the world.

The Special Applications Division at HELLA is dedicated to developing custom lighting and electronic solutions for the complex requirements of specialist vehicle manufacturers in such diverse sectors as mining, construction, emergency response and marine.

Through the Aftermarket Division, HELLA supplies wholesale distributors and retailers with a diverse portfolio

of high quality replacement parts for both passenger and commercial vehicles. Teaming with several other German original equipment brands, all which are regarded as among the very best in their fields, in order to offer an even more diverse product range.

The HELLA Field Sales team and Customer Service advisors are the designated first point of contact, and customers can be assured of a prompt, helpful and knowledgeable response

The Technical Specialists, Product Managers and Marketing team liaise directly with customers providing training, technical sales support and business development initiatives, which include bespoke lighting designs, marketing tools and promotions.

A DIVERSE RANGE OF PRODUCT SOLUTIONS



Original Equipment supplier to over 165 of the world's leading vehicle manufacturers including...



Aston Martin, Audi, BMW, Mercedes Benz and Porsche



Case New Holland, Caterpillar, John Deere, Komatsu and Manitou.



Daimler, Iveco, Kenworth, Scania and Volvo.



Iveco, MAN and Scania.



Barker, Byford, Haulmark and Vawdrey.



Austral, Bavaria, Beneteau, Maritimo and Riviera.

ICONS EXPLAINED

A variety of symbols are used to ensure a quick reference to many important product features throughout the catalogue.



DURALED® LIFETIME WARRANTY
Refer to details on inside back cover.



5 YEAR WARRANTY ON LED
Refer to details on inside back cover.



FIT & FORGET BY DESIGN



ULTRA LONG LIFE LONGEVITY



MULTIVOLT™
Can be connected to either 12 or 24 volt DC electrical systems.
Refer to details on Page 9.



DUALVOLT
12 or 24 Volt DC



GLOBE INCLUDED



12V or 24V GLOBE INCLUDED



ENHANCED DEFINITION TECHNOLOGY
Utilises Enhanced Definition Technology (EDT) to maximise the visual impact of the signal function.
Refer to details on Page 9.



HELLA COMPATIBILITY SOLUTION (HCS)
HCS technology for safe and seamless conversion to LED direction indicators.
Refer to details on Pages 9 and 318.



LED TECHNOLOGY
Combining quality LEDs with advanced optic technology for class-leading efficiency.



NUMBER OF LED LIGHT SOURCES
Defines the number of LED light sources used by the product.



GRILAMID® LENS MATERIAL
High performance clear Polyamide for extreme impact, UV, chemical and stress resistance.
Refer to details on Page 7.



RFCOMMSAFETM
Electromagnetic Compatibility (EMC).
Refer to details on Pages 11, 64 & 181.



ULTRAVIOLET RESISTANT
Utilises advanced impact resistant polymers that will not yellow or deteriorate.



ULTRA WIDE VISIBILITY OPTICS
Providing increased light intensity that is well above ADR requirements for significantly improved side visibility.



CORROSION-PROOF HOUSING



HEAVY DUTY MOUNT



STAINLESS STEEL BRACKET



ECE CERTIFIED
Product is licensed according to ECE guidelines.



ADR COMPLIANT
Products displaying this symbol comply with Australian Design Rule, or ADR requirements.
Refer to details on Page 480.



GGVSEB/ADR
(European Regulations)



RCM COMPLIANT
Regulatory Compliance Mark



DISPLAY PACK
Supplied in printed packaging suitable for retail display.



HANG-SELL PACKAGING
Supplied in hang-sell blister packaging for retail display on existing merchandising systems.



Marker and Signal Lamps

The range of HELLA Marker and Signal Lamps have been accepted as the most advanced lighting solution for commercial vehicles.





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LED MARKER AND SIGNAL LAMPS

Our expanding range of LED based marker and signal lamps has been accepted as the most advanced solution to trim maintenance expenses of Commercial Transport Fleets and Operators.

Since the introduction of the first HELLA LED signal lamp in 1990, this innovative technology has set new standards and received considerable worldwide recognition. Over two decades, we have refined our designs and developed production technologies now used in millions of lamps produced annually, all engineered and tested to the most demanding standards.

Our local research, development and production facilities have allowed us to respond quickly to market feedback from Australian manufacturers of transport equipment, as well as many discerning Fleet Operators from all over the globe. Their input has been invaluable and has ultimately helped HELLA manufactured LED technology products to succeed in world markets.

HELLA Fit and Forget LED lighting systems are now firmly established as the solution that fully meets both environmental and economic considerations of the astute operator, in an ever growing catalogue of applications.

DuraLED

HELLA's growing range of DuraLED lamps, incorporating the latest LED technology, has proven to be the superior economic and environmental choice for transport operators. DuraLED has a track record to last the distance. The first DuraLED lamps were supplied in 1998 and are still in use today.

DuraLED lamps offer distinctive designs with shallow shapes and concealed mounting screws for enhanced protection against damage.

Most marker and signal lamps are pre-wired with sheathed multi-core cable, fully sealed against dust and moisture to International Protection Standards IP 6K6/IP 6K7, and compliant with current ADR (Australian Design Rules). As a result, these lamps are approved for use in Australia.

Once again following market demand, we now offer a range of selected models of DuraLED lamps with moulded-in-Deutsch (DT) Connectors.

HELLA's innovative DuraLED lamps are designed for use on trucks, buses, caravans, emergency vehicles and specialty applications. The range includes marker lamps, direction indicators, end outline lamps, position lamps, high intensity warning signal lamps and a combination stop/rear position/indicator lamp range incorporating special ultra wide optics for enhanced visibility.

EuroLED®

The EuroLED® marker and signal range of LED lamps harness the benefits of a single high intensity LED. The use of precision optics give the EuroLED® lamp a unique look along with the benefits of low power consumption. EuroLED® marker and signal lamps feature a shallow design and special ultra wide optics for significantly improved side visibility.

EuroLED® lamps are also shockproof and fully sealed to withstand temporary water submersion and high-pressure washing, ensuring long service life and durability. EuroLED® lenses are made from specially formulated high impact acrylic with enhanced chemical resistance.





Superior Lens and Optic Materials

The majority of HELLA DuraLED and EuroLED® lamps are produced using specially formulated enhanced high impact acrylic, that has superior resistance to most commonly used wash and cleaning liquids.

HELLA recommends these hermetically sealed marker and signal lamps for most commercial transport applications to provide an ultra long term and environmentally friendly lighting solution.

In 2009 HELLA took the design and development of ultra durable lighting solutions to a new level by specifying the Swiss Made high-tech material Grilamid® for some selected applications.

Grilamid® has quickly become the material of choice for the discerning equipment operator and fleet managers.

UV Resistance

Australia is exposed to some of the highest and harshest UV radiation in the world. Most consumers will have purchased and experienced products made from plastic materials that deteriorate, fade and often become brittle very quickly when exposed to the sun.

Most of the LED lighting equipment we supply is likely to be continually exposed to this harsh environment. HELLA only manufactures products from materials which are highly resistant to UV deterioration.

HELLA LED lamps are designed to withstand our harsh environmental conditions and will tolerate long term exposure to high UV levels without fading or embrittlement.



GRILAMID®
Specified by HELLA

Grilamid® has quickly become the material of choice for operators of equipment exposed to high vibration, impact and chemical conditions.

An Increasing Range of Lamps with Grilamid® Lenses and Optics

Grilamid® is a revolutionary optical grade Polyamide made in Switzerland. Grilamid® offers an unbeatable combination of properties including toughness against impact, long term UV stability and resistance to commonly used chemicals and washes. As such Grilamid® has become the specified material of choice for many of HELLA's valued commercial customers and end users.

HELLA has responded to this strong customer demand and has significantly expanded the range of products with optional Grilamid® lenses. In addition, we have taken the bold step and standardised Grilamid® for some popular lamps at no extra cost to our customers.

Long Term Transparency

Grilamid® will not lose its lustre or embrittle over time but will remain clear, transparent and impact tough for the life of the product. Grilamid® retains its superior optical performance without discolouration.

Cleaning Products

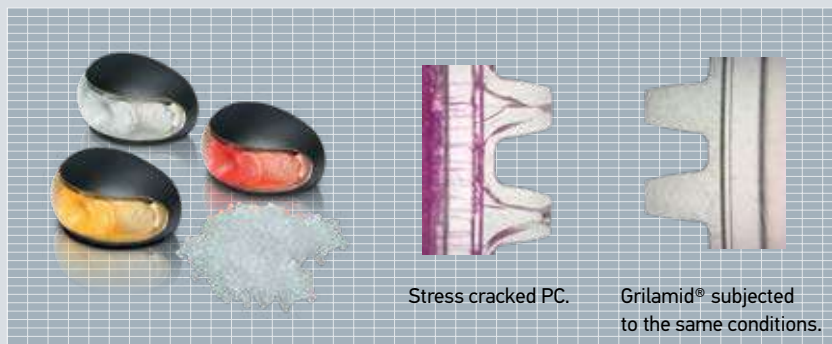
The use of cleaning chemicals and even general liquid detergents is sometimes used as a reason to void warranties for products made from Polycarbonate. Such chemicals can cause crazing and/or cracking of this particular plastic type.

Grilamid® is highly resistant to chemicals commonly used in the transport industry, even in applications where it is regularly exposed to chemicals used to wash and sterilise equipment used in our Primary Industries. It is the ideal material for a true Fit and Forget performance.

Grilamid® Retains its Toughness

LED truck and trailer lamps are frequently exposed to mechanical impacts by stones, tree branches and general shocks. Uncoated Polycarbonate will lose its impact resistance over time.

Tests prove and market feedback confirms the superior strength and toughness of Grilamid® is not compromised even through the prolonged effects of weathering and UV exposure.



Stress cracked PC.

Grilamid® subjected to the same conditions.

HELLA Marker and Signal Lamps have been accepted as the most advanced lighting solution for commercial vehicles.



Electromagnetic Compatibility (EMC)

HELLA LED lamps are electronic devices. The electrical circuits contain components that have been optimised to suppress frequencies that can interfere with communication equipment or even the common radio. The circuits are also specially designed to reduce the susceptibility to interference from electric fields.

Protection Against Damage Due to Voltage Spikes

HELLA lamps are protected against damage from positive voltage spikes caused by events such as load dump conditions and overvoltage. The circuits are also protected against reverse polarity connection and negative voltage spikes.

Easy Refurbishment of Acrylic and Grilamid® Lenses

In a world consuming resources at an ever increasing rate, HELLA LED lamps manufactured with enhanced impact acrylic and Grilamid® are a truly long-term investment.

Both these materials can be refurbished to near new condition by polishing out fine scratches and road grime.

As illustrated in the photo, a DuraLED lamp with several years of active high mileage road use can be refurbished to pristine near new condition.



Acrylic and Grilamid® lamps can be polished to look like new.

HELLA Fit and Forget LED lighting systems are firmly established as the solution that fully meets both environmental and economic considerations of the astute operator.



TECHNICAL PRODUCT ICONS

Your guide to understanding the technical product icons found throughout the marker and signal section.



Multivolt

One of the leading advantages of HELLA's LED technology is the Multivolt circuitry fitted to most of our LED lamps, ensuring a uniform level of intensity and optimum brightness. Multivolt LED lamps can be connected to either 12 or 24 volt DC electrical systems. The light performance will not be adversely affected by voltage drop over long cables and corroded connectors. LED lamps fitted with Multivolt circuitry are clearly marked throughout the catalogue.



Enhanced Definition Technology (EDT)

A stop lamp has to be instantly recognised as a warning signal. To further enhance recognition an increase in illuminated area (compared to the rear position lamp) is combined with an increase in intensity. As a result the illuminated area gets larger and brighter on an EDT lamp for increased safety and awareness



HCS - HELLA Compatibility Solution

Vehicles operating on Australian public roads require the direction indicator lamps to be monitored for correct function. When a 21 watt globe based lamp is exchanged with an LED lamp, some flasher units will not recognise this LED lamp because of its low power consumption and indicate a globe failure. Many transport fleets will operate trucks/trailers which can feature a mixture of globe based direction indicator lamps and low power consumption LED direction indicator lamps.

In 1999 HELLA designed the HELLA Compatibility Solution (HCS) to offer seamless compatibility between conventional globe based lamps and HCS equipped LED lamps. The HCS control unit recognises either a standard globe lamp or an HCS LED lamp or a mixture thereof, and continues to work normally, without triggering the globe failure warning function.

This technical solution has become the ISO Standard 13207-1 which is being incorporated into the body electronic of European Trucks.

Astute fleet operators today specify LED lamps designed to ISO Standard 13207-1 to ensure the future-proofing of their fleet.

See page 318 for further information on HCS Technology and ISO 13207-1



Grilamid®

Grilamid® has quickly become the material of choice for operators of equipment exposed to high vibration and impact conditions as well as in applications regularly exposed to petrochemicals and chemicals used to wash and sterilise equipment used in our Primary Industries. See page 7 for further information on Grilamid®



RFCommSafe

RFCommSafe products were developed in recognition that some radio communication equipment can be very sensitive in remote areas. RFCommSafe products are designed to ensure no interference with any other electronic equipment.

RFCommSafe products are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 14, CISPR 25 or relevant UNECE R10 Standards.



Ultra Wide Visibility Optics

HELLA continues to increase its range of LED signal lamps that incorporate Ultra Wide Visibility Optics. LED lamps strictly designed to minimum legal requirements in the horizontal +/-10 to +/-45 degree field suffer from signal fade and become less visible in bright sunlight.

By incorporating Ultra Wide Visibility Optics, HELLA LED signal lamps are much more noticeable to following drivers particularly as the vehicle in front turns and the LED stop or turn signal is viewed from an angle.

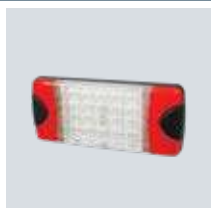
HELLA LED signal lamps, incorporating Ultra Wide Visibility Optics, far exceed the minimum legal brightness requirement beyond the +/-10 degree horizontal angle. These lamps provide a significantly enhanced stop and turn signal to the driver of the following vehicle. LED signal lamps incorporating Ultra Wide Visibility Optics, are clearly marked throughout the catalogue.

QUICK REFERENCE PRODUCT GUIDE

LED LAMPS



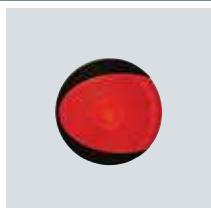
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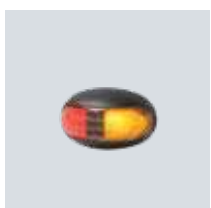
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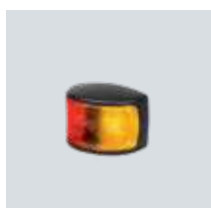
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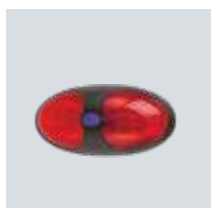
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GLOBE LAMPS



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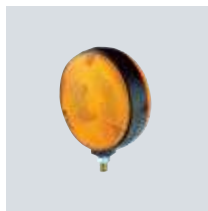
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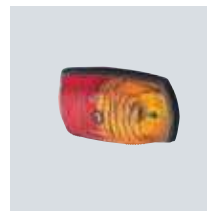
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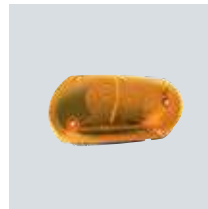
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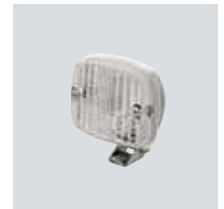
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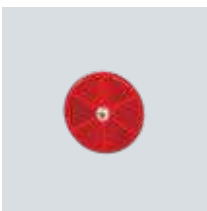


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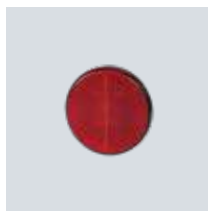


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REFLECTORS



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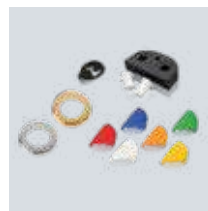


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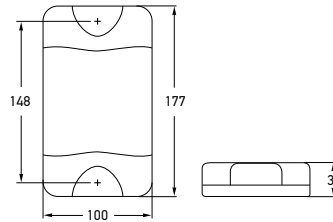
ACCESSORIES



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DuraLED Stop/Rear Position Lamp with Night Light

DuraLED stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2330-V	2SB 959 060-251
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	Stop: 6W Rear position: 2.5W Night: 2.5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 49/00 E24 5850 ECE R7/02 ADR COMPLIANCE

See page 86 for DuraLED accessories.

DuraLED Rear Direction Indicator Lamp

DuraLED rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2151-V	2BA 959 070-251	
2151-VCS	2BA 980 607-501	HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	2151-V 6W 2151-VCS 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a E24 5850 ISO 13207-1 (2151-VCS only) ECE R6/01	ADR COMPLIANCE

See page 314 for further information on HCS Technology and ISO 13207-1.

DuraLED Reversing Lamp

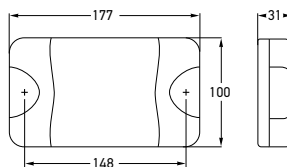
DuraLED reversing lamp for trucks, buses, caravans and trailers.



1430-V	2ZR 959 070-551
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for vertical mounting.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 1/00 E24 5850 ECE R23/00 ADR COMPLIANCE

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS



2330-H	2SB 959 060-351	
2330-HBL	2SB 959 060-352	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W	Rear position: 2.5W Night: 2.5W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00	E24 5850 ECE R7/02

See page 86 for DuraLED accessories.

DuraLED Stop/Rear Position Lamp with Night Light

DuraLED stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2330-HBL

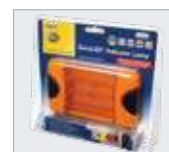


2151-H	2BA 959 070-351	
2151-HBL	2BA 959 070-352	BLISTER PACK
2151-HCS	2BA 980 607-001	HCS TECHNOLOGY
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	2151-H/...-HBL/...-HBULK 6W	2151-HCS 4W
Protection	As per P/N 2330-H.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a	E24 5850 ISO 13207-1 (2151-HCS only)

See page 314 for further information on HCS Technology and ISO 13207-1.

DuraLED Rear Direction Indicator Lamp

DuraLED rear direction indicator lamp for trucks, buses, caravans and trailers. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2151-HBL

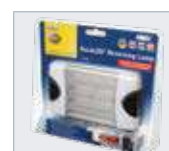


1430-H	2ZR 959 070-501	
1430-HBL	2ZR 959 070-502	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	As per P/N 2330-H.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00	E24 5850 ECE R23/00

Reversing lamps are not designed for continuous operation.

DuraLED Reversing Lamp

DuraLED reversing lamp for trucks, buses, caravans and trailers.



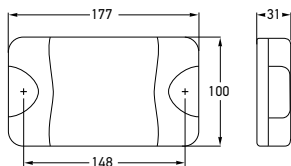
P/N 1430-HBL

DuraLED Stop/Rear Position Lamp with Night Light

DuraLED stop, rear position lamp featuring Enhanced Definition Technology (EDT) for increased safety and awareness. Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle.



P/N 2330BL



2330	2SB 959 060-001	
2330BL	2SB 959 060-002	BLISTER PACK
2330BULK	2TA 959 060-011	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 1W Night: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00	

See page 86 for DuraLED accessories.

DuraLED Rear Direction Indicator Lamp

DuraLED rear direction indicator lamp for trucks, buses, caravans and trailers.



P/N 2151BL



2151	2BA 959 070-011	
2151BL	2BA 959 070-012	BLISTER PACK
2151BULK	2BA 959 070-027	PACK OF 4
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a	

The new evolution of the DuraLED Combi has arrived.



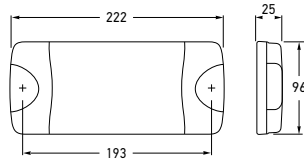
Upgrade to the Latest Technology

HELLA introduces the latest upgrade to the iconic DuraLED Combi with a new slim design, featuring a depth of just 25mm. Combining all the features transport professionals depend upon; world-class materials, unsurpassed design, exceptional performance, and after sales service second to none, the new DuraLED Combi will be the next staple in road transport lighting arsenals.

Part Numbers	Slim	Power Supply MULTI VOLT	RF Comm Safe ((()))	Cable Length (mtrs)	Built-in DT Connector	Lens Material GMD	DURALED HCS HELLA Compatible Solution	Additional Functions	Application
2377	✓	12/24V	✓	2.5	–	✓	–	Retro Reflector	Truck/Trailer
2378	✓	12/24V	✓	2.5	–	✓	–	–	Heavy Duty Commercial High Impact Protection
2378-BL	✓	12/24V	✓	2.5	–	✓	–	–	Heavy Duty Commercial High Impact Protection
2378-CS	✓	12/24V	✓	2.5	–	✓	✓ 24V	–	Heavy Duty Commercial High Impact Protection
2378-DT	✓	12/24V	✓	–	✓	✓	–	Night	Heavy Duty Commercial High Impact Protection
2378-DTCS	✓	12/24V	✓	–	✓	✓	✓ 24V	Night	Heavy Duty Commercial High Impact Protection

DuraLED Combi-S Stop/Rear Position/Rear Direction Indicator Lamp - Heavy Duty

DuraLED combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Suitable for commercial vehicles and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.



P/N 2378BL



Ultra slim height of only 25mm.

2378	2SD 980 613-001	
2378BL	2SD 980 613-002	BLISTER PACK
2378BULK	2SD 980 613-007	PACK OF 12
2378-CS	2SD 980 613-201	HCS TECHNOLOGY (24V ONLY)

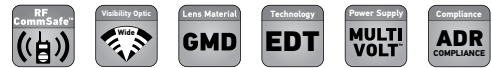
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	5W	
	Rear position:	1W	
	Rear direction indicator:	5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 6/00: Cat 2a E24 5883	ADR 49/00 ECE R6/01	ISO 13207-1 (2378-CS only) ECE R7/02
See page 314 for further information on HCS Technology and ISO 13207-1.			

COMBI-S LAMP FUNCTIONS

Stop	Rear position	Rear direction indicator

DuraLED Combi-S Trailer Lighting Kit

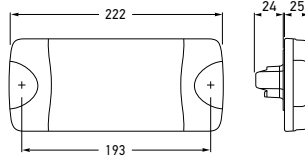
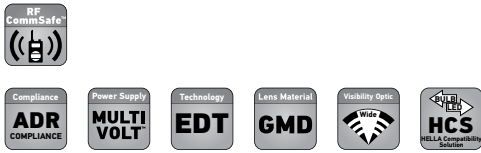
A complete Fit and Forget solution for commercial trailers or boat trailers.



2378-TP	2VB 980 613-801	
Kit Contents	Each trailer lamp kit contains:	
	2 x 2378	DuraLED Combi-S stop/rear position and rear direction indicator lamp with 6m sheathed multi-core cable.
	2 x 2923	Red retro reflector
	1 x 2559-1	LED licence plate lamp with 5m sheathed multi-core cable.
	1 x 4921	7 pole flat plug



MARKER AND SIGNAL LAMPS



2378DT	2SD 980 602-001		
2378DTCS	2SD 980 602-201	HCS TECHNOLOGY (24V ONLY)	
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop: 5W Rear position: 1W	Rear direction indicator: 5W Night: 1W	
Protection	As per P/N 2378.		
Accessory	4963-P 6 pole DT plug, wedge and 6 contacts.		
Lens Material	Nylon (PA12)		
Compliance	ADR 6/00: Cat 2a E24 5883	ADR 49/00 ECE R6/01	ISO 13207-1 (2378-DTCS only) ECE R7/02

See page 314 for further information on HCS Technology and ISO 13207-1.

DuraLED Combi-S Stop/Rear Position/Rear Direction Indicator Lamp with DT Connector and Night Light - Heavy Duty

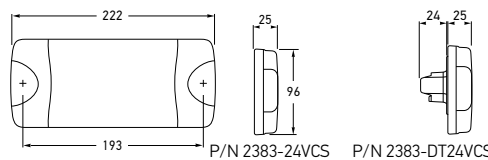
DuraLED combination lamp featuring Ultra Wide Visibility Optics for significantly improved side visibility and Enhanced Definition Technology (EDT). Night light function allows illumination of the rear position lamp independently from the remaining marker lamps on the vehicle, resulting in low power consumption. Suitable for commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Optic appears clear until illuminated.



Rear view showing DT connector that allows application of self-adhesive heat shrink.



P/N 4963-P
Not included with lamp.



2383-24VCS	2SK 980 613-511 – Incorporates HCS technology		2.5M CABLE
2383-DT24VCS	2SK 980 602-511 – Incorporates HCS technology		DT CONNECTOR
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	24V DC		
Power Consumption	Stop: 3W Rear position: 1W Night (2383-DT24VCS only): 1W	Rear direction indicator: 3W Reverse: 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable (except DT versions).		
Accessory	4963-P 6 pole DT plug, wedge and 6 contacts.		
Lens Material	Nylon (PA12)		
Compliance	E24 5894 ECE R10	ECE R6/01	ECE R7/02 ECE R23/00 ISO 13207-1

DuraLED Combi-S Stop/Rear Position/Rear Direction Indicator/ Reversing Lamp with DT Connector and Night Light

DuraLED combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for 24V commercial vehicles. Optic appears clear until illuminated.



Ultra slim height of only 25mm.



Rear view showing DT connector that allows application of self-adhesive heat shrink.

COMBINATION LAMP FUNCTIONS



Stop Rear position Rear direction indicator Reverse

DuraLED Combi-R Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector

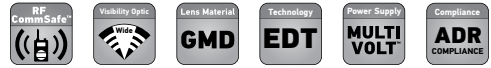
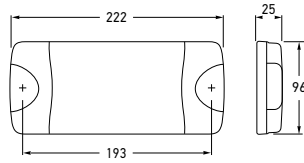
DuraLED combination lamp with 34cm² red retro reflector which features Enhanced Definition Technology (EDT). Suitable for light commercial and boat trailers. Shockproof and fully sealed to withstand water submersion and high-pressure washing.



P/N 2377BL



Ultra slim height of only 25mm.



2377	2VA 980 710-011			
2377BL	2VA 980 710-012			BLISTER PACK
2377BULK	2VA 980 710-017			PACK OF 12
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.			
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.			
Power Consumption	Stop:	4W		
	Rear position:	1W		
	Rear direction indicator:	4W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.			
Lens Material	Nylon (PA12)			
Compliance	ADR 47/00 E24 5882	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02	ECE R3/02
See page 86 for DuraLED accessories.				

COMBI-R LAMP FUNCTIONS

Stop	Rear position	Rear direction indicator

DuraLED Combi-R Trailer Lighting Kit

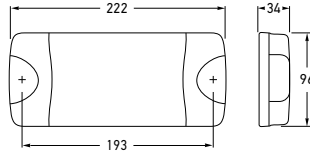
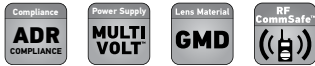
A complete Fit and Forget solution for trailers or caravans.



2377-TP	2VA 980 710-811		
Kit Contents	Each trailer lamp kit contains:		
	2 x 2377	DuraLED Combi-R stop/rear position and rear direction indicator lamp with retro reflector and 6m sheathed multi-core cable.	
	1 x 2559-1	LED licence plate lamp with 5m sheathed multi-core cable.	
	1 x 4921	7 pole flat plug	



MARKER AND SIGNAL LAMPS



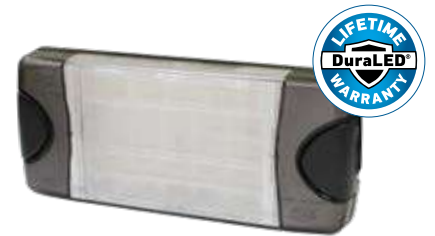
2380	2SK 980 603-501	
2380BL	2SK 980 603-502	BLISTER PACK
2380BULK	2SK 980 603-507	PACK OF 12
2380GMD	2SK 980 603-551	NYLON (PA12) LENS

Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop: 5W	Rear position: 1W	Rear direction indicator: 4W
			Reverse: 3W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 1/00 E24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02
			ECE R23/00

See page 86 for DuraLED accessories.

DuraLED Combi Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

DuraLED combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.



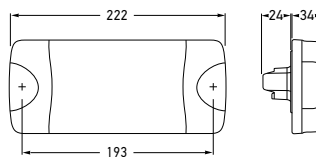
P/N 2380BL

COMBINATION LAMP FUNCTIONS



DuraLED Combi Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with DT Connector and Night Light

DuraLED combination lamp featuring modern clear lens design. Low power consumption and long life equates to economical running costs. Ideal for trucks and utes. Optic appears clear until illuminated.



2380DT	2SK 980 615-011	
2380DTGMD	2SK 980 615-051	NYLON (PA12) LENS

Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop: 5W	Rear position: 1W	Rear direction indicator: 4W
			Reverse: 3W
			Night: 1W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Accessory	4963-P	6 pole DT plug, wedge and 6 contacts.	
Compliance	ADR 1/00 E24 5870	ADR 6/00: Cat 2a ECE R6/01	ADR 49/00 ECE R7/02
			ECE R23/00



P/N 4963-P
Not included with lamp.



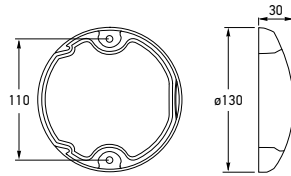
Rear view showing DT connector that allows application of self-adhesive heat shrink.

EuroLED® Stop/Rear Position Lamp

EuroLED® stop, rear position lamp with red lens. The use of precision optics enable a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2366BL



2366	2SB 959 821-001		
2366BL	2SB 959 821-002		BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	Stop: 2.5W	Rear position: 0.5W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 49/00		ECE R7/02

See page 88 for EuroLED® accessories.

EuroLED® Stop/Rear Position Lamp -24V DC

EuroLED® stop, rear position lamp with red lens. The use of precision optics enable a single high intensity LED to be used in a commercial vehicle lamp, resulting in low power consumption. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2366-24V	2SB 959 020-001		
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	24V DC (Voltage regulated 20-28V DC)		
Power Consumption	Stop: 5W	Rear position: 1W	
Protection	As per P/N 2366.		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 49/00		ECE R7/02

See page 88 for EuroLED® accessories.

EuroLED® Rear Direction Indicator Lamp

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



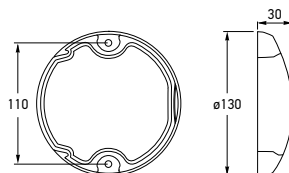
P/N 2133BL



2133	2BA 959 822-001		
2133BL	2BA 959 822-002		BLISTER PACK
2133-CS	2BA 959 822-641 HCS TECHNOLOGY		
Mounting	Two hole surface mount with mounting bushes supplied.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	2.5W		
Protection	As per P/N 2366.		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a		ECE R6/01 ISO 13207-1 (2133-CS only)

See page 314 for further information on HCS Technology and ISO 13207-1.
See page 89 for Jumbo-S and Designline accessories.

MARKER AND SIGNAL LAMPS



EuroLED® Rear Direction Indicator Lamp - 24V DC

EuroLED® rear direction indicator lamp with amber lens and single LED. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2133-24V	2BA 959 021-001
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	24V DC (Voltage regulated 20-28V DC)
Power Consumption	5W
Protection	As per P/N 2366.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 6/00: Cat 2a E4 10208 ECE R6/01

See page 88 for EuroLED® accessories.



EuroLED® Reversing Lamp

EuroLED® reversing lamp with clear lens and single LED.



1433	2ZR 959 820-001
1433BL	2ZR 959 820-002 BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	2.5W
Protection	As per P/N 2366.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	ADR 1/00 E4 10208 ECE R23/00

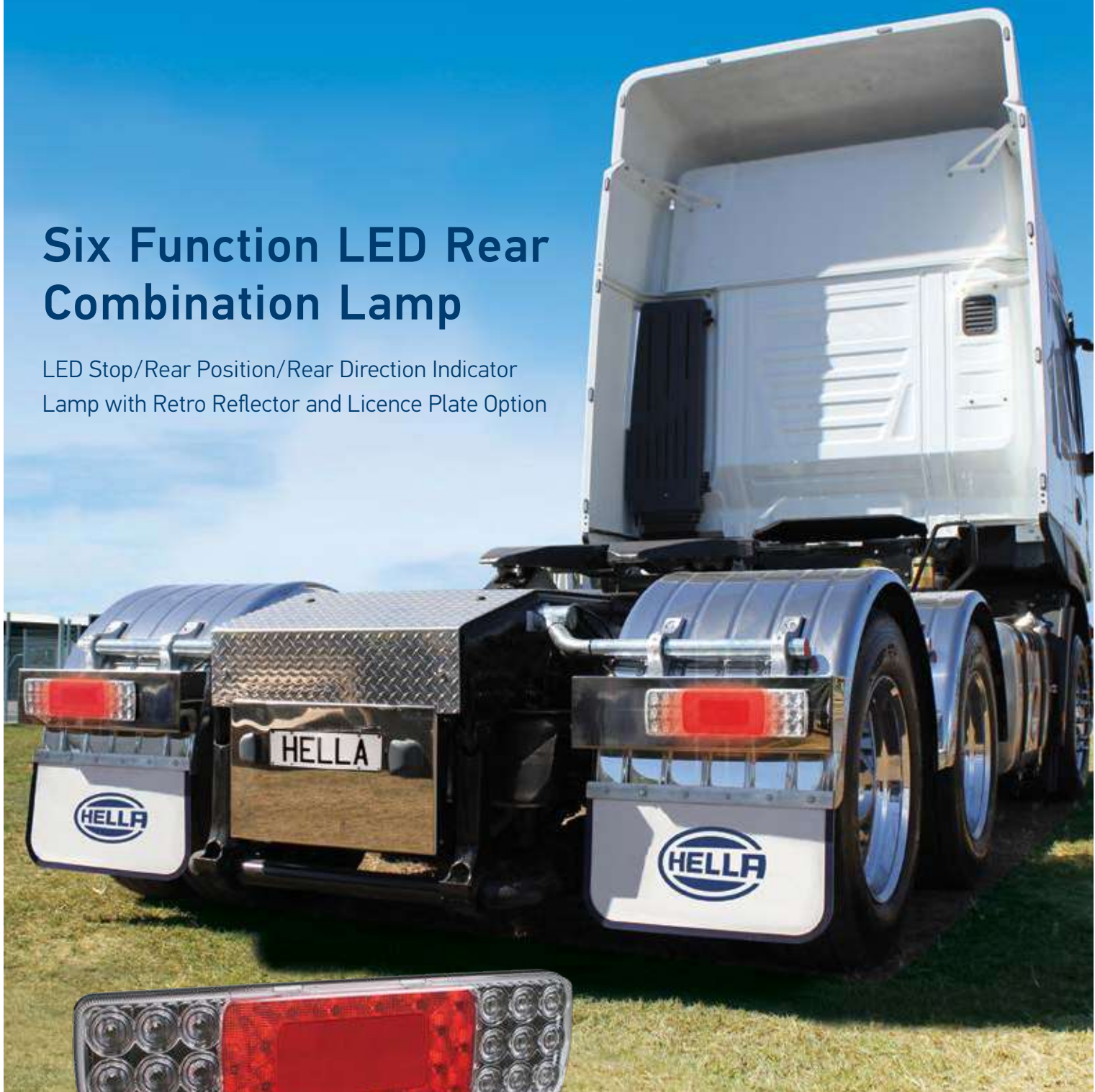
Reversing lamps are not designed for continuous operation.



P/N 1433BL

Six Function LED Rear Combination Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector and Licence Plate Option



These stylish lamps combine form with function, incorporating stop, rear position, and rear direction indicator lamps with a central reflector, and offers an optional licence plate lamp function. To combine all rear marker and signal functions in a single lamp with a single five core cable allows for a significant reduction in installation time.

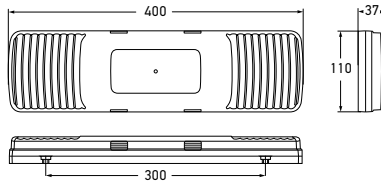
This lamp is protected by a lens made of specially formulated high impact acrylic, which is resistant to long-term harsh UV exposure and tolerant to chemicals commonly used in the transport industry. Our team designed this lamp to HELLA's Fit and Forget standard, to withstand the most demanding environments.



LED Combination lamp retail packaging

All features of this six function rear combination lamp, including the latest ISO 13207-1 compliance, are designed to ensure lowest cost of ownership for the astute transport operator.

MARKER AND SIGNAL LAMPS



LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector

LED combination lamp with 64cm² red retro reflector. Modern clear lens design with black mounting base. Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.

2391	2VP 980 980-001	HCS TECHNOLOGY - 24V ONLY
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W Rear position: <2W Rear direction indicator: 6W Reverse: 5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1	

See page 314 for further information on HCS Technology and ISO 13207-1.



P/N 2391

COMBINATION LAMP FUNCTIONS



LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp with Retro Reflector and Licence Plate Function

LED combination lamp with 64cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Features HCS Technology with ISO 13207-1 compliance. Shockproof and fully sealed to withstand water submersion and high-pressure washing. Direction indicator optic appears clear until illuminated.

2392L	2VD 980 980-011 - Left Hand Side	HCS TECHNOLOGY - 24V ONLY
2392R	2VD 980 980-021 - Right Hand Side	HCS TECHNOLOGY - 24V ONLY
Mounting	Two bolt surface mount with mounting accessories supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W Rear position/Licence plate: <2W Rear direction indicator: 6W Reverse: 5W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS). IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 48/00 ADR 49/00 ISO 13207-1	

See page 314 for further information on HCS Technology and ISO 13207-1.

COMBINATION LAMP FUNCTIONS



P/N 2392L

LED Stop/Rear Position /Rear Direction Indicator Lamp

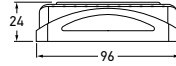
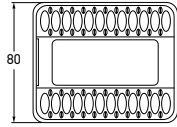
LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



P/N 9.2394.09
Mounting spacer
(not included)



P/N 2394



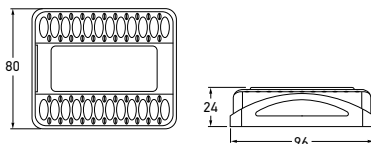
2394	2VA 980 720-002		
2394BULK	2VA 980 720-008	PACK OF 18	
2394-6M	2VA 980 720-021		
2394-6MBULK	2VA 980 720-027	PACK OF 10	
2394-9MBULK	2SD 980 720-037	PACK OF 12	
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	2W	
	Rear position:	1W	
	Rear direction indicator:	2W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	2394	Pre-wired with 0.5m of sheathed multi-core cable.	
	2394-6M	Pre-wired with 6m of sheathed multi-core cable.	
	2394-9M	Pre-wired with 9m of sheathed multi-core cable.	
Spare Parts	9.2394.08	Mounting base	
	9.2394.09	Mounting spacer (not included)	
Lens Material	Nylon (PA12)		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00

TRAILER LAMP FUNCTIONS

Stop	Rear direction indicator	Rear position



MARKER AND SIGNAL LAMPS



2395	2VB 980 720-502	
2395BULK	2SE 980 720-508	PACK OF 18
2395-6M	2VB 980 720-511	
2395-6MBULK	2SE 980 720-513	PACK OF 10
2395-9MBULK	2SE 980 720-527	PACK OF 12

Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop:	2W	
	Rear position/Licence plate:	1W	
	Rear direction indicator:	2W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	2395	Pre-wired with 0.5m of sheathed multi-core cable.	
	2395-6M	Pre-wired with 6m of sheathed multi-core cable.	
	2395-9M	Pre-wired with 9m of sheathed multi-core cable.	
Spare Parts	9.2394.08	Mounting base	
	9.2394.09	Mounting spacer (not included)	
Lens Material	Nylon (PA12)		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00 ADR 49/00

**LED Stop/Rear Position/Rear
Direction Indicator Lamp
with Licence Plate Function**

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



P/N 9.2394.09 Mounting spacer (not included)	P/N 2395

TRAILER LAMP FUNCTIONS		
Stop	Rear direction indicator	Rear position/ Licence plate



2395-TP	2VB 980 720-811	
Lens Material	Nylon (PA12)	
Kit Contents	Each Trailer Lamp Kit contains:	
	1 x 2394	Stop/rear position/rear direction indicator lamp with reflex reflector.
	1 x 2395	Stop/rear position/rear direction indicator/licence plate lamp function with reflex reflector.
	8 x Connectors (P/N 8231S)	Crimp connectors with heat shrink insulation.

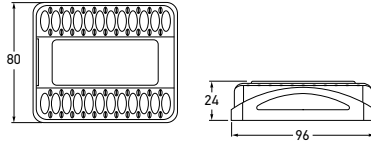
LED Combination Lamp Trailer Kit

LED Trailer Lamp incorporating a modern clear lens design with an 18cm² red retro reflector. The optic in the lamp appears clear until illuminated.



LED Stop/Rear Position/Rear Direction Indicator Lamp – 12V

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



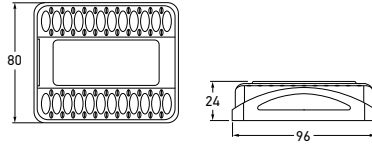
2394-12V	2VA 980 720-201			
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.			
Voltage	12V DC			
Power Consumption	Stop:	2W		
	Rear position:	1W		
	Rear direction indicator:	2W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)			
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.			
Spare Parts	9.2394.08	Mounting base		
	9.2394.09	Mounting spacer (not included)		
Lens Material	Acrylic			
Compliance	ADR 6/00: Cat 2a E24 5860	ADR 47/00 ECE R6/01	ADR 49/00 ECE R7/02	 ECE R3/02

P/N 9.2394.09 Mounting spacer (not included)	P/N 2394-12V

TRAILER LAMP FUNCTIONS		
Stop	Rear direction indicator	Rear position



MARKER AND SIGNAL LAMPS



2395-12V	2VB 980 720-601					
Mounting	Surface mount with choice of mounting holes. Lamp clips into mounting base. Suitable for horizontal or vertical mounting.					
Voltage	12V DC					
Power Consumption	Stop:	2W				
	Rear position/Licence plate:	1W				
	Rear direction indicator:	2W				
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)					
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.					
Spare Parts	9.2394.08	Mounting base				
	9.2394.09	Mounting spacer (not included)				
Lens Material	Acrylic					
Compliance	ADR 6/00: Cat 2a E24 5860	ADR 47/00 ECE R6/01	ADR 48/00 ECE R7/02	ADR 49/00 ECE R3/02		ECE R4/00

**LED Stop/Rear Position/Rear
Direction Indicator Lamp
with Licence Plate Function – 12V**

LED stop, rear position and rear direction indicator lamp with 18cm² red retro reflector and licence plate function. Modern clear lens design with black mounting base. Low power consumption and long life equates to economical running costs. Convenient mounting base with multiple fixing points allow easy fitment to most trailers/vehicles. The lamp is fully sealed against dust and moisture ingress. Optic appears clear until illuminated.



TRAILER LAMP FUNCTIONS		
Stop	Rear direction indicator	Rear position/ Licence plate

P/N 9.2394.09 Mounting spacer (not included)	P/N 2395-12V



2395-TP	2VB 980 720-811		
2395-TP9M	2VB 980 720-861		9M CABLE
Lens Material	Acrylic		
Kit Contents	Each trailer lamp kit contains:		
	1 x 2394	Stop/rear position/rear direction indicator lamp with reflex reflector.	
	1 x 2395	Stop/rear position/rear direction indicator/licence plate lamp function with reflex reflector.	
	8 x Connectors (P/N 8231S)	Crimp connectors with heat shrink insulation.	

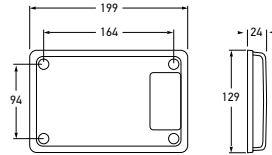
LED Combination Lamp Trailer Kit

LED Trailer Lamp incorporating a modern clear lens design with an 18cm² red retro reflector. The optic in the lamp appears clear until illuminated.



Jumbo-S LED Stop /Rear Position Lamp

Jumbo-S LED stop, rear position lamp with inbuilt 23cm² red retro reflector, featuring Enhanced Definition Technology (EDT) for the stop signal function. New low profile design allows surface mounting with gasket accessory (P/N 9.2361.08).



2361	2TA 980 760-011		
2361BL	2TA 980 760-012		BLISTER PACK
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	Stop: 5W Rear position: 1W		
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 200mm of cable.		
Compliance	ADR 47/00	ADR 49/00	

See page 89 for Jumbo-S accessories.

Jumbo-S LED Rear Direction Indicator Lamp

Jumbo-S LED rear direction indicator lamp with inbuilt 23cm² red retro reflector. New low profile design allows surface mounting with gasket accessory (P/N 9.2361.08). Features HCS Technology with ISO 13207-1 compliance.



2161	2BR 980 761-011		
2161BL	2BR 980 761-012		BLISTER PACK
2161-CS	2BR 980 761-021		HCS TECHNOLOGY - 24V ONLY
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	4W		
Protection	As per P/N 2361.		
Cable Length	Pre-wired with 200mm of cable.		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ISO 13207-1 (2161-CS only)

See page 314 for further information on HCS Technology and ISO 13207-1.

Jumbo-S LED Reversing Lamp

Jumbo-S LED reversing lamp with inbuilt 23cm² red retro reflector. New low profile design allows surface mounting with gasket accessory (P/N 9.2361.08).



1461	2ZR 980 762-011		
1461BL	2ZR 980 762-012		BLISTER PACK
Mounting	Retrofit to update existing Jumbo or Designline lamps. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	4W		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 200mm of cable.		
Compliance	ADR 1/00	ADR 47/00	

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS

Compliance
ADR COMPLIANCE

Power Supply
MULTI VOLT

Technology
EDT

SULED LED
HCS
HELLA Compatibility Solution

RF CommSafe™

2429	2VA 980 760-801	
2429-CS	2VA 980 761-801	HCS TECHNOLOGY - 24V ONLY
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2429-CS only)	

See page 89 for Jumbo-S and Designline accessories.

Jumbo-S LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 314 for further information on HCS Technology and ISO 13207-1).



Compliance
ADR COMPLIANCE

Power Supply
MULTI VOLT

Technology
EDT

SULED LED
HCS
HELLA Compatibility Solution

RF CommSafe™

2430	2VA 980 760-811	
2430-CS	2VA 980 761-811	HCS TECHNOLOGY - 24V ONLY
Mounting	As per P/N 2429-CS.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W x 2 Rear position: 1W x 2 Rear direction indicator: 4W	
Protection	As per P/N 2429-CS.	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2430-CS only)	

Jumbo-S LED Triple Module Stop/Rear Position/Rear Direction Indicator Lamp

Jumbo-S LED stop, rear position, rear direction indicator lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 314 for further information on HCS Technology and ISO 13207-1).



Compliance
ADR COMPLIANCE

Power Supply
MULTI VOLT

Technology
EDT

SULED LED
HCS
HELLA Compatibility Solution

2431	2VP 980 760-821	
2431-CS	2VP 980 761-821	HCS TECHNOLOGY - 24V ONLY
Mounting	As per P/N 2429-CS.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 5W Rear position: 1W Rear direction indicator: 4W Reversing: 4W	
Protection	As per P/N 2429-CS.	
Cable Length	Pre-wired with 2m of sheathed multi-core cable.	
Compliance	ADR 1/00 ADR 6/00: Cat 2a ADR 47/00 ADR 49/00 ISO 13207-1 (2431-CS only)	

Jumbo-S LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

Jumbo-S LED stop, rear position, rear direction indicator and reversing lamp with 23cm² red retro reflectors. Lamps are pre-assembled and wired into housing for easy installation. Features HCS Technology with ISO 13207-1 compliance. (See page 314 for further information on HCS Technology and ISO 13207-1).

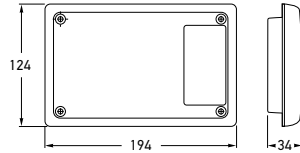


Jumbo LED Module Stop /Rear Position Lamp with Red Retro Reflector

Jumbo LED Multivolt module designed to update existing Jumbo or Designline lamps with Enhanced Definition Technology (EDT). Reflector area 33cm².



P/N 2317BL



2317	2TA 959 030-101	
2317BL	2TA 959 030-102	BLISTER PACK
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 47/00 ADR 49/00	

See page 89 for Designline accessories.

Jumbo LED Module Rear Direction Indicator Lamp with Red Retro Reflector

Jumbo LED Multivolt module designed to update existing Jumbo or Designline lamps. Reflector area 33cm².

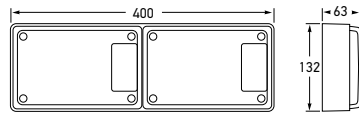


P/N 2138BL



2138	2BR 959 031-011	
2138BL	2BR 959 031-012	BLISTER PACK
Mounting	Four point recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	9W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a ADR 47/00	

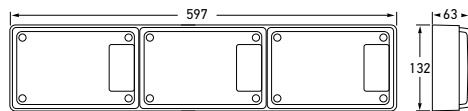
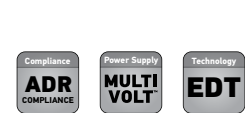
MARKER AND SIGNAL LAMPS



Jumbo LED Double Module Stop /Rear Position/Rear Direction Indicator Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with in-built retro reflector.

2422LED	2VA 959 030-421		
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 9 and 33 volt systems.		
Power Consumption	Stop:	6W	
	Rear position:	1W	
	Rear direction indicator:	6W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00



Jumbo LED Triple Module Stop /Rear Position/Rear Direction Indicator Lamp

LED Stop/Rear Position/Rear Direction Indicator Lamp with in-built retro reflector.

2416LED	2VA 959 030-321		
Mounting	Surface mount with mounting bolts supplied. Suitable for horizontal or vertical mounting.		
Voltage	Multivolt for optimum brightness in 9 and 33 volt systems.		
Power Consumption	Stop:	6W x 2	
	Rear position:	1W x 2	
	Rear direction indicator:	6W x 1	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00



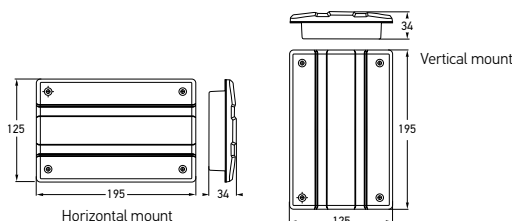
Designline LED Module Stop /Rear Position Lamp

Designline LED Multivolt module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2332-V24

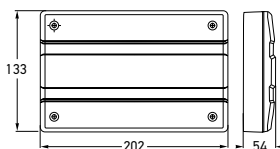
P/N 2332-H24BL



2332-H24	2SB 959 040-501	HORIZONTAL
2332-H24BL	2SB 959 040-502 – Blister Pack	HORIZONTAL
2332-V24	2SB 959 040-701	VERTICAL
Mounting	Four point recess mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 2W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 49/00	
See page 89 for Designline accessories.		

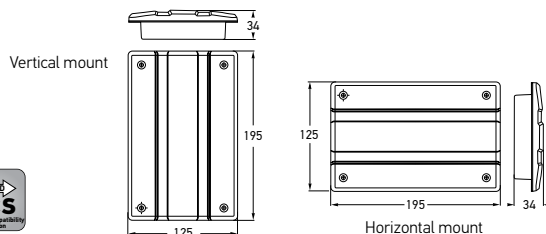
Designline LED Module Stop /Rear Position Lamp

Designline LED Multivolt module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2320LED-H	2SB 959 040-561	HORIZONTAL
Mounting	Four point recess mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 6W Rear position: 2W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 49/00	
See page 89 for Designline accessories.		

MARKER AND SIGNAL LAMPS



2146-H24	2BA 959 041-501	HORIZONTAL
2146-H24BL	2BA 959 041-502 – Blister Pack	HORIZONTAL
2146-HCS	2BA 959 041-511 – Incorporates HCS Technology	HORIZONTAL
2146-V24	2BA 959 041-701	VERTICAL
2146-VCS	2BA 959 041-711 – Incorporates HCS Technology	VERTICAL

Mounting	Four point recess mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	P/Ns 2146-H24/2146-V24: 6W	
	P/Ns 2146-HCS/2146-VCS: 4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	ISO 13207-1 (2146-HCS or 2146-VCS only)

See page 314 for further information on HCS Technology and ISO 13207-1.

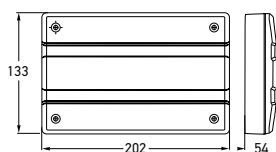
Designline LED Module Rear Direction Indicator Lamp

Designline LED Multivolt module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Designline LED Module Rear Direction Indicator Lamp

Designline LED Multivolt module designed to update existing globe type Jumbo or Designline lamps. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2144LED-H	2BA 959 041-111	HORIZONTAL
Mounting	Four point surface mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	6W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	

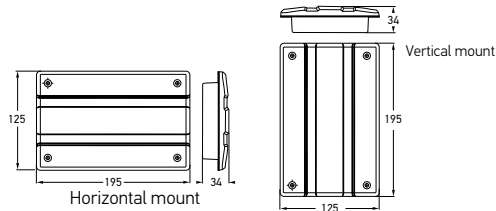


Designline LED Module Reversing Lamp

Designline LED Multivolt module designed to update existing Designline lamps. The high performance module features 36 High Efficacy LEDs that more than triples the raw lumen output over the standard module. High precision optics ensure ADR compliance by focusing the majority of light down ensuring wide illumination and improved safety when reversing.



P/N 1446-V



1446-H	2ZR 959 041-321	HORIZONTAL
1447L	2ZR 959 041-371 – High performance - Left hand side	
1447R	2ZR 959 041-361 – High performance - Right hand side	
1446-V	2ZR 959 041-411	VERTICAL

Mounting	Four point recess mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	P/Ns 1446-H/1446-V: 4W	P/Ns 1447L/1447R: 7W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 1/00	

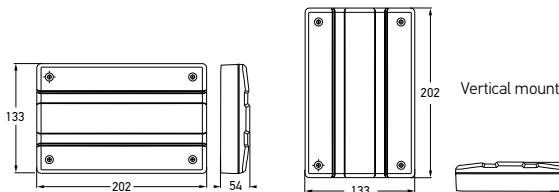
Reversing lamps are not designed for continuous operation.

Designline LED Module Reversing Lamp

Designline LED Multivolt module designed to update existing globe type Jumbo or Designline lamps.



P/N 2041LED-V



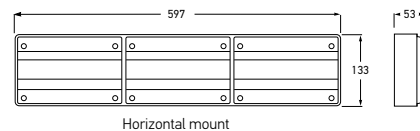
2041LED-H	2ZR 959 041-331	HORIZONTAL
2041LED-V	2ZR 959 041-431	VERTICAL

Mounting	Four point surface mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS).	
Cable Length	Pre-wired with 250mm of cable.	
Compliance	ADR 1/00	

Reversing lamps are not designed for continuous operation.

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp

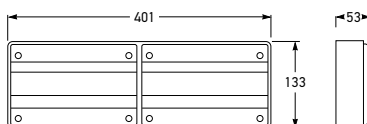
LED Stop/Rear Position/Rear Direction Indicator/Reversing Lamp featuring EDT (Enhanced Definition Technology) for the stop signal function and unique UWVO (Ultra Wide Visibility Optics) for significantly improved side visibility.



2424LED-H	2SK 959 040-531	HORIZONTAL
Mounting	Surface mount with mounting bolts supplied.	
Voltage	Multivolt for optimum brightness in 9 and 33 volt systems.	
Power Consumption	Stop 6W Rear position: 2W	Rear direction indicator: 6W Reverse: 21W
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.	
Compliance	ADR 1/00	ADR 6/00: Cat 2a ADR 47/00 ADR 49/00

The reversing lamp is a standard globe unit and must have correct 12V globe (included) or 24V globe fitted.

MARKER AND SIGNAL LAMPS



Horizontal mount

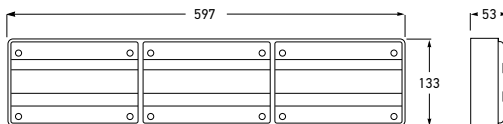
2426-H	2SD 959 040-801	HORIZONTAL
2426-V	2SD 959 040-901	VERTICAL

Mounting	Two bolt surface mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop:	6W
	Rear position:	2W
	Rear direction indicator:	6W
Cable Length	Pre-wired with 2m of multi-core cable.	
Spare Part	9.2422.09	Double housing
Compliance	ADR 6/00: Cat 2a	ADR 49/00

See page 89 for Designline accessories.

Designline LED Double Module Stop/Rear Position/Rear Direction Indicator Lamp

Double Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts so lamp does not have to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



Horizontal mount

2427-H	2SD 959 040-811	HORIZONTAL
2427-V	2SK 959 040-911	VERTICAL

Mounting	Two bolt surface mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop:	6W x2
	Rear position:	2W x 2
	Rear direction indicator:	6W x 1
Cable Length	Pre-wired with 2m of multi-core cable.	
Spare Part	9.2423.09	Triple housing
Compliance	ADR 6/00: Cat 2a	ADR 49/00

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator Lamp

Triple Designline LED module pre-assembled and wired for easy installation. Features a 2m wiring loom and encapsulated bolts so lamp does not have to be disassembled to mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2428-H	2SK 959 041-811	HORIZONTAL
2428-V	2SK 959 041-911	VERTICAL

Mounting	Two bolt surface mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop:	6W
	Rear position:	2W
	Rear direction indicator:	6W
	Reverse:	4W
Cable Length	Pre-wired with 2m of multi-core cable.	
Spare Part	9.2423.09	Triple housing
Compliance	ADR 1/00	ADR 6/00: Cat 2a ADR 49/00

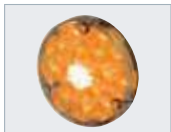
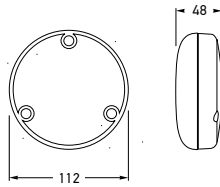
Reversing lamps are not designed for continuous operation.

Designline LED Triple Module Stop/Rear Position/Rear Direction Indicator/Reversing Lamp



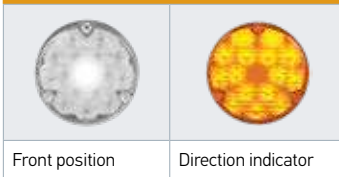
**110mm Round LED Front Position/
Front Direction Indicator Lamp –
Clear Lens**

LED front direction indicator and front position lamp specifically designed for commercial transport, buses, caravans and trailers. Direction indicator optic appears clear until illuminated.



P/N 2106-CS

LAMP FUNCTIONS



2106-CS	2BA 959 932-012 – Incorporates HCS Technology	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Front position: <1W Front direction indicator: 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 1 ECE R7/02	ADR 49/00 E24 5851 ECE R6/01 ISO 13207-1

See page 91 for 110mm Round LED lamp accessories.
See page 314 for further information on HCS Technology and ISO 13207-1.

**110mm Round LED Front Direction
Indicator Lamp – Clear Lens**

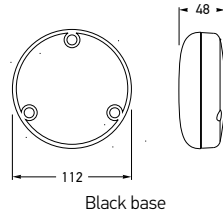
LED front direction indicator specifically designed for trucks, buses and motor homes. Optic appears clear until illuminated.



2105CLR	2BA 959 932-211	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 1	

See page 314 for further information on HCS Technology and ISO 13207-1.

MARKER AND SIGNAL LAMPS



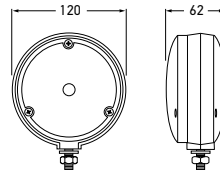
110mm Round LED Front Direction Indicator Lamp – Amber Lens

LED front direction indicator specifically designed for trucks, buses and motor homes.



2135LED	2BA 959 932-311	BLACK BASE
2105	2BA 959 932-201	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	P/Ns 2135LED/2105: 4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 1	

See page 314 for further information on HCS Technology and ISO 13207-1.



LED Front Direction Indicator Lamp (Cat.1)

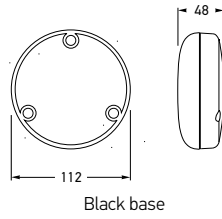
Single-sided LED front direction indicator fitted with high-intensity LED insert and black housing. Fully sealed to withstand high-pressure washing.



2128LED	2BA 959 932-301	AMBER LENS
Mounting	Single bolt mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Spare Parts	2.6702.03	Backing plate
Compliance	ADR 6/00: Cat 1	

110mm Round LED Stop /Rear Position Lamp

110mm round LED stop, rear position lamp specifically designed for commercial transport, buses, caravans and trailers. Features low power consumption and impact resistant acrylic lens.



2367	2SB 959 931-111	BLACK BASE
2365	2SB 959 931-001	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 49/00	

See page 91 for 110mm Round LED lamp accessories.

110mm Round LED Rear Direction Indicator Lamp



2167	2BA 959 932-711	BLACK BASE
2165	2BA 959 932-501	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	3W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 6/00: Cat 2a	

See page 314 for further information on HCS Technology and ISO 13207-1.

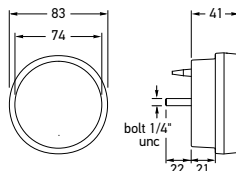
110mm Round LED Reversing Lamp



1467	2ZR 959 930-111	BLACK BASE
1465	2ZR 959 930-001	MODULE
Mounting	Mount only with lens engraving "TOP" located correctly.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	5W	
Protection	Reverse polarity and 1500 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 200mm of cable.	
Compliance	ADR 1/00	

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS



83mm Round LED Safety DayLights/Front Position /Front Direction Indicator Lamp

This LED combination lamp features an integrated Safety DayLight, front position indicator and front position function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight. This lamp eliminates the need for installation of multiple lamps.

2108-GMD	2BE 980 691-111	12 VOLT DC												
2108-GMD24V	2BE 980 690-111	24 VOLT DC												
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.													
Power Consumption	<table border="1"> <thead> <tr> <th></th> <th>P/N 2108-GMD</th> <th>P/N 2108-GMD24V</th> </tr> </thead> <tbody> <tr> <td>Safety DayLights:</td> <td>4W</td> <td>4W</td> </tr> <tr> <td>Front position:</td> <td>1W</td> <td>1W</td> </tr> <tr> <td>Front direction indicator:</td> <td>3W</td> <td>4W</td> </tr> </tbody> </table>			P/N 2108-GMD	P/N 2108-GMD24V	Safety DayLights:	4W	4W	Front position:	1W	1W	Front direction indicator:	3W	4W
	P/N 2108-GMD	P/N 2108-GMD24V												
Safety DayLights:	4W	4W												
Front position:	1W	1W												
Front direction indicator:	3W	4W												
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)													
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.													
Lens Material	Nylon (PA12)													
Compliance	ADR 6/00: Cat 1 E24 5854	ADR 49/00 ECE R6/01												
	ADR 76/00 ECE R7/02	ECE R87/00												

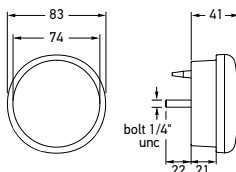
See page 89 for mounting accessories.



83MM LAMP FUNCTIONS



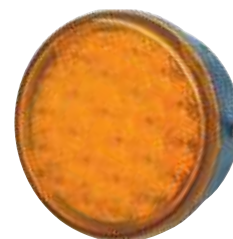
LED Safety DayLights Front position Front direction indicator



83mm Round LED Front Direction Indicator Lamp

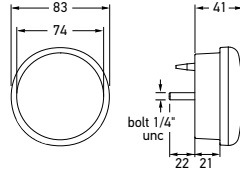
Compact, low profile LED front direction indicator fitted with amber polycarbonate lens. Fully sealed to withstand high-pressure washing.

2107	2BA 959 011-112	PACK OF 2
2107BULK	2BA 959 011-113	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 1	



83mm Round LED Stop /Rear Position Lamp

83mm diameter LED stop, rear position lamp with single bolt mount, featuring Enhanced Definition Technology (EDT). Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.

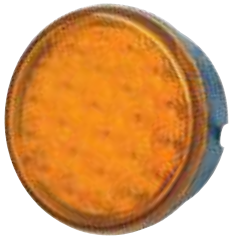


2390	2SB 959 010-031	PACK OF 2
2390BL	2SB 959 010-041	BLISTER PACK
2390BULK	2SB 959 010-037	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Stop: 3W Rear position: 1W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00 E4 11391 ECE R7/02 ADR COMPLIANCE	

See page 89 for mounting accessories.

83mm Round LED Rear Direction Indicator Lamp

83mm diameter LED rear direction indicator lamp with single bolt mount. Features HELLA Ultra Wide Visibility Optics for significantly improved side visibility.



2130	2BA 959 011-011	PACK OF 2
2130BL	2BA 959 011-031	BLISTER PACK
2130BULK	2BA 959 011-003	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	2W	
Protection	As per P/N 2390.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a E4 11391 ECE R6/01 ADR COMPLIANCE	

Contact HELLA for 24 volt HCS version.

83mm Round LED Reversing Lamp

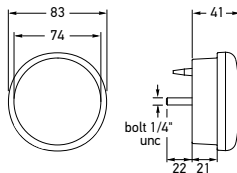
83mm diameter LED reversing lamp with single bolt mount.



1490	2ZR 959 010-511	PACK OF 2
1490BL	2ZR 959 010-521	BLISTER PACK
Mounting	Flush Mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	4W	
Protection	As per P/N 2390.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 1/00 E4 11391 ECE R23/00 ADR COMPLIANCE	

Reversing lamps are not designed for continuous operation.

MARKER AND SIGNAL LAMPS



83mm Round LED Stop/
Rear Position/Rear Direction
Indicator Lamp

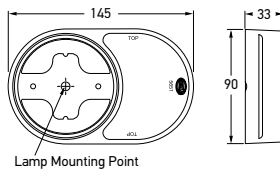
83mm diameter LED stop, rear position and rear direction indicator lamp with single bolt mount.



2399	2SD 959 010-202	PACK OF 2
2399BL	2SD 959 010-231	BLISTER PACK
2399BULK	2SD 959 010-217	PACK OF 10
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	Stop: 3W Rear position: 1W Rear direction indicator: 3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Bulk pack pre-wired with 6m of sheathed multi-core cable.	
Compliance	ADR 6/00: Cat 2a E9 1538	ADR 49/00 ECE R6/01 ECE R7/02
Contact HELLA for 24 volt HCS version. See page 89 for mounting accessories.		



2934-H	8RA 980 565-102	HORIZONTAL
2934-V	8RA 980 565-502	VERTICAL
Mounting	Utilises bolt mount from 83mm round lamps.	
Compliance	ADR 47/00	



Red Retro Reflector Base

Red retro reflector to suit 83mm round lamps.
Reflector area 31.7cm².



2399-TP	2VB 959 010-811	
Kit Contents	Each trailer lamp kit contains:	
	2 x 2399	Combination stop/rear position and rear direction indicator lamp with 6m cable
	2 x 2934H	Red retro reflector base – horizontal mount
	2 x 2559	LED licence plate lamp with 2.5m cable
	1 x 4921	7 pole flat plug

LED Lighting Trailer
Conversion Kit

A complete Fit and Forget solution for small trailers.

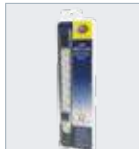


LED Front Direction Indicator Lamp – Surface Mount

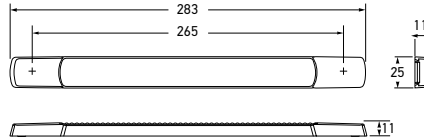
Surface mount LED front direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.



P/N 2109BL



2109	2BA 980 888-301 – Horizontal Mount	12 VOLT DC
2109BL	2BA 980 888-322 – Blister Pack - Horizontal Mount	
2109-24V	2BA 980 888-401 – Horizontal Mount	24 VOLT DC
2109-24VBL	2BA 980 888-422 – Blister Pack - Horizontal Mount	
2109V	2BA 980 888-501 – Vertical Mount	12 VOLT DC
2109VBL	2BA 980 888-522 – Blister Pack - Vertical Mount	
2109V-24V	2BA 980 888-601 – Vertical Mount	24 VOLT DC
2109V-24VBL	2BA 980 888-622 – Blister Pack - Vertical Mount	

Power Consumption 3W

Protection Reverse polarity protection.
IP 6K7 (Protection against dust and temporary water immersion)
IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)

Cable Length Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)

Lens Material Nylon (PA12)

Compliance ADR 6/00: Cat 1 Horizontal E24 5869 Vertical E24 5890 ECE R6/01

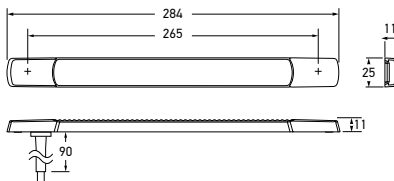
See page 91 for surface mount strip lamp screw caps.

LED Slim Surface Mount Combination Lamp

The Surface Mount Strip lamp features an extremely durable Nylon (PA12) lens that is impact, UV and chemical resistant. Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



P/N 2110-24V
LED Slim Surface Mount Combination Lamp
Front Direction Indicator/Front Position



2110-12V	2BE 980 819-301	12 VOLT
2110-24V	2BE 980 819-401	24 VOLT

Mounting Suitable for horizontal and vertical mounting.

Power Consumption Front position: <1W
Front direction indicator: 3W

Protection Reverse polarity protection.
IP 6K7 (Protection against dust and temporary water immersion)
IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)

Cable Length Pre-wired with 2.5m of sheathed multi-core cable.

Lens Material High impact and chemical resistant Nylon (PA12) lens

Spare Parts 9.2652.09 White screw caps (Pack of 4)
9.1009.09 Charcoal screw caps (Pack of 4)
9.1009.10 Chrome screw caps (Pack of 4)

Compliance ADR 49/00 ADR 6/00: Cat 1



Includes mounting screws and charcoal screw caps.

LAMP FUNCTIONS



Front position

Front direction indicator



2168	2BA 980 888-001	12 VOLT DC
2168BL	2BA 980 888-022 – Blister Pack	
2168-24V	2BA 980 888-201	24 VOLT DC
2168-24VBL	2BA 980 888-222 – Blister Pack	
Mounting	Suitable for horizontal and vertical mounting.	
Power Consumption	3W	
Protection	As per P/N 2109	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)	
Lens Material	Nylon (PA12)	
Compliance	ADR 6/00: Cat 2a	E24 5891 ECE R6/01

LED Rear Direction Indicator Lamp – Surface Mount

Surface mount LED rear direction indicator lamp that is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.



P/N 2168BL

MOUNTING DIAGRAMS

P/N 2109/...-24V	P/N 2109V/...-24V	P/N 2168/...-24V

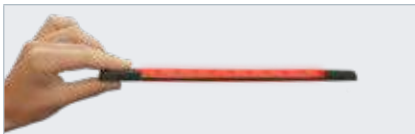
Horizontal mount: +/- 45° rotation around lamp (and vehicle) axis

Vertical mount: +/- 45° rotation around lamp (and vehicle) axis

Horizontal mount & Vertical mount: 360° rotation around lamp (and vehicle) axis

LED Stop/Rear Position Lamp – Surface Mount

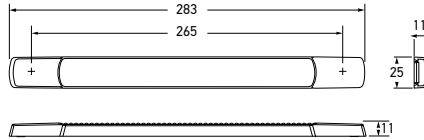
Surface mount LED stop/rear position lamp that features Enhanced Definition Technology (EDT) and is designed with an ultra wide visibility optic for significantly improved side visibility. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.



P/N 2318BL



2318	2SB 980 887-001	12 VOLT DC
2318BL	2SB 980 887-002 – Blister Pack	
2318-24V	2SB 980 887-201	24 VOLT DC
2318-24VBL	2SB 980 887-202 – Blister Pack	

Mounting	Suitable for horizontal and vertical mounting.		
Power Consumption	Stop:	3W	Rear Position: <0.5W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 0.3m cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 49/00		

STOP / REAR POSITION LAMP FUNCTIONS

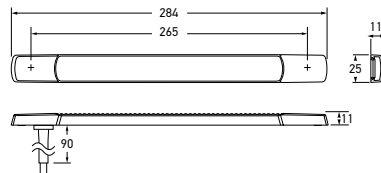


LED Slim Surface Mount Combination Lamp

The Surface Mount Strip lamp features an extremely durable nylon (PA12) lens that is impact, UV and chemical resistant. Ultra-efficient LEDs offer increased reliability while reducing power consumption, maintenance and operational costs.



P/N 2375-24V
LED Slim Surface Mount Combination Lamp
Stop/Rear Position/Rear Direction Indicator (Stop function shown)

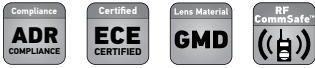


2375-12V	2BE 980 819-301	12 VOLT
2375-24V	2BE 980 819-401	24 VOLT

Mounting	Suitable for horizontal and vertical mounting.		
Power Consumption	Stop:	2W	Rear position: <0.5W
	Rear direction indicator:	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Spare Parts	9.2652.09	White screw caps (Pack of 4)	
	9.1009.09	Charcoal screw caps (Pack of 4)	
	9.1009.10	Chrome screw caps (Pack of 4)	
Compliance	ADR 49/00 ADR 6/00: Cat 2a 5902 ECE 6/01 ECE 7/02		
Includes mounting screws and charcoal screw caps.			

LAMP FUNCTIONS





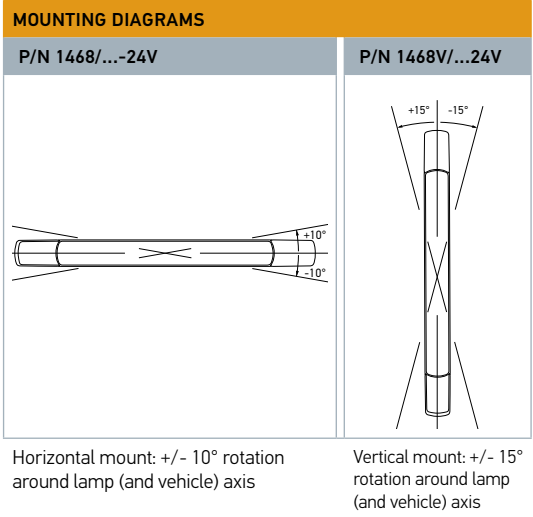
1468	2ZR 980 889-001 – Horizontal Mount	12 VOLT DC
1468BL	2ZR 980 889-022 – Blister Pack - Horizontal Mount	
1468-24V	2ZR 980 889-201 – Horizontal Mount	24 VOLT DC
1468-24VBL	2ZR 980 889-222 – Blister Pack - Horizontal Mount	
1468V	2ZR 980 889-101 – Vertical Mount	12 VOLT DC
1468V-24V	2ZR 980 889-301 – Vertical Mount	24 VOLT DC
Power Consumption	3W	
Protection	As per P/N 2318	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. (Blister packs with 0.5m cable)	
Lens Material	Nylon (PA12)	
Compliance	ADR 1/00 Horizontal 0027 Vertical 0028 ECE R23/00	
Reversing lamps are not designed for continuous operation.		

LED Reversing Lamp – Surface Mount

Surface mount LED reversing lamp. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

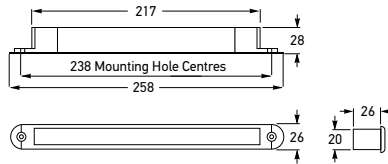


Ultra slim height of only 11mm. Lamp shown active.



LED Stop/Rear Position Lamp

Red LED strip lamp suitable for coaches and buses, featuring Enhanced Definition Technology (EDT).



2334	2SB 959 074-501	12 VOLT DC
2334-24V	2SB 959 074-001	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	Stop: 2W Rear position: 0.3W	
Protection	Reverse polarity protection.	
Cable Length	Pre-wired with 300mm of cable.	
Spare Part	9.5243.05	Gasket
Compliance	ADR 49/00	

LED Rear Direction Indicator Lamp

Amber LED strip lamp suitable for coaches and buses.



2156	2BA 959 075-501	12 VOLT DC
2156-24V	2BA 959 075-001	24 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.	
Spare Part	9.5243.05	Gasket
Compliance	ADR 6/00: Cat 2a	

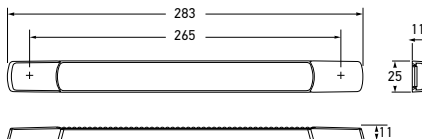
LED High Level Brake Lamp

Strip LED lamp designed for rear spoiler applications.



5243	2DA 959 071-591	12 VOLT DC
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.5243.05	Gasket
Compliance	ADR 49/00: Cat S3	02 7547 ECE R7/02

MARKER AND SIGNAL LAMPS



5245	2DA 980 887-301	12 VOLT DC
5245-24V	2DA 980 887-401	24 VOLT DC
Mounting	Suitable for horizontal or vertical mounting.	
Power Consumption	3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Accessories	9.2652.09 White screw caps (Pack of 4) 9.1009.09 Charcoal screw caps (Pack of 4) 9.1009.10 Chrome plated screw caps (Pack of 4)	
Compliance	ADR 49/00: Cat S3	E24 02 0087 ECE R7/02

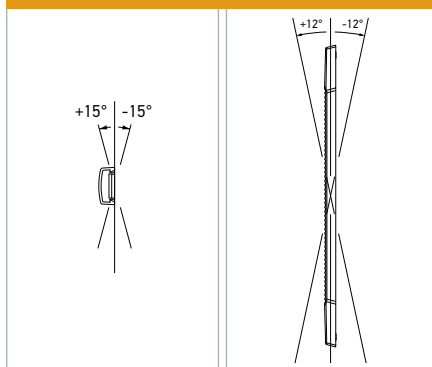
LED Centre High Level Brake Lamp – Surface Mount

Surface mount LED high level brake lamp that is designed with an ultra wide visibility optic to suit a wide range of mounting positions and angles. Featuring a low profile, ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Ultra slim height of only 11mm. Lamp shown active.

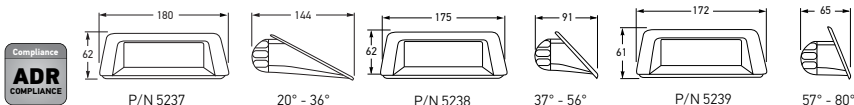
MOUNTING DIAGRAMS



Horizontal mount: +/- 15° tilt (up/down) Vertical mount: +/- 12° tilt (up/down)

LED Centre High Level Brake Lamp

Designed for rear windows of angles from 20° (Coupe) to 80° (Wagon). Supplied with installation kit and instruction sheet. Optic appears clear until illuminated.



5237	2DA 959 190-001 – Coupe	20° - 36°	12 VOLT DC
5238	2DA 959 190-002 – Sedan	37° - 56°	
5239	2DA 959 192-001 – Wagon	57° - 80°	
Mounting	Adhesive mounting tape. Window angles for Coupe are 20° - 36°, Sedan 37° - 56° and Wagon 57° - 80°.		
Voltage	12V DC		
Power Consumption	3W		
Cable Length	Pre-wired with 2.5m of multi-core cable.		
Compliance	ADR 49/00: Cat S3		

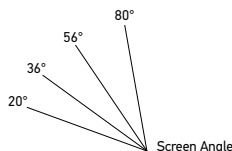


P/N 5237
Shown illuminated



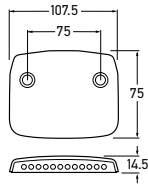
P/N 5238

P/N 5239



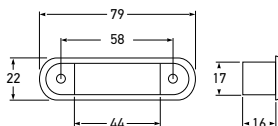
LED Lift Platform Rear Direction Indicator – Amber

Low-profile LED Rear Direction Indicator for mounting on lift and loading platforms. Features robust die-cast zinc housing and impact resistant polycarbonate lens for increased durability. Optic appears clear until illuminated in amber signal colour.



2103-12V	2BA 008 260-012	12 VOLT DC
2103-24V	2BA 008 260-002	24 VOLT DC
Mounting	Surface mount. M6 x 25mm mounting bolts included.	
Power Consumption	2.8W	
Protection	Sealed against dust and moisture to IP5K9K	
Cable Length	Pre-wired with 2.5m of cable.	
Compliance	ADR 6/00 Cat 2a	
To be used in conjunction with primary vehicle rear direction indicators.		

MARKER AND SIGNAL LAMPS

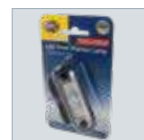


2055	2PF 959 590-491	
2055BULK	2PF 959 590-547	PACK OF 4
Mounting	Two hole recess mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	ADR 49/00	E4 0054 ECE R7/02

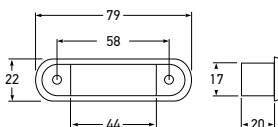
See page 90 for spare parts and accessories.

LED Flush Mount Front Position/End Outline Lamp

White front position or front end outline LED lamp (FEOL). Optic appears clear until illuminated.



P/N 2055

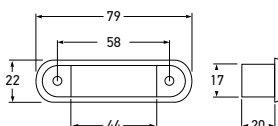


2056	2PF 959 590-341	
2056BULK	2PF 959 590-357	PACK OF 4
Mounting	Suitable for horizontal mounting.	
Compliance	ADR 49/00	

Other specifications as per P/N 2055. See page 90 for spare parts and accessories.

LED Flush Mount Front End Outline Lamp

Amber front end outline LED lamp (FEOL) for trailers only. Optic appears clear until illuminated.

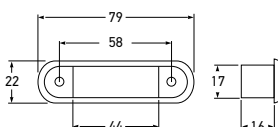


2057	2XS 959 650-011	
2057BULK	2XS 959 650-027	PACK OF 4
Mounting	Suitable for horizontal mounting.	
Compliance	ADR 45/01	

Other specifications as per P/N 2055. See page 90 for spare parts and accessories.

LED Flush Mount Cab Marker Lamp

Amber cab marker LED lamp. Optic appears clear until illuminated.



2308	2BA 959 610-441	
2308BULK	2BA 959 610-457	PACK OF 4
Compliance	ADR 49/00	E4 02 7597 ECE R7/02

Other specifications as per P/N 2055. See page 90 for spare parts and accessories.

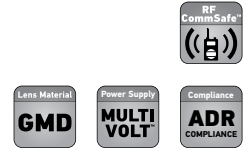
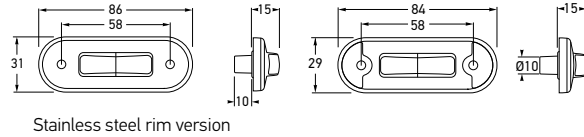
LED Flush Mount Rear Position/End Outline Lamp

Red rear end outline lamp (REOL) or rear position LED lamp. Optic appears clear until illuminated.



DuraLED Flush Mount Side Marker Lamp

Red/amber surface mount side marker lamp. Featuring a low profile of only 15mm and an ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated. With optional stainless steel rim.

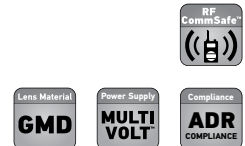
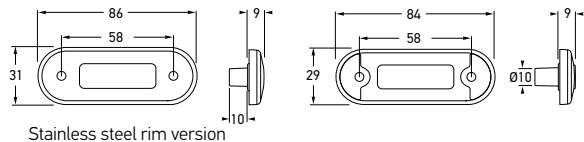


2083	2PS 980 868-041	
2083BULK	2PS 980 868-057 – Pack of 16	
20830EBULK	2PS 980 868-047 – Pack of 24	
2083S	2PS 980 868-061	POLISHED STAINLESS STEEL RIM
2083SBULK	2PS 980 868-077 – Pack of 16	
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	

See page 86 for DuraLED marker lamp accessories.

DuraLED Flush Mount Front Position/End Outline Lamp

White surface mount front position or front end outline LED lamp (FEOL) with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



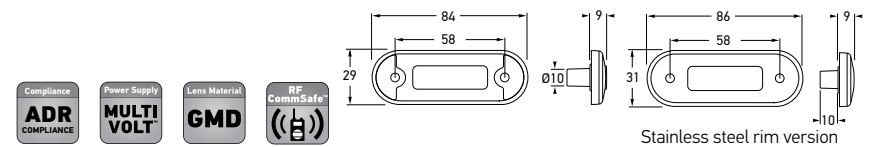
2059	2PF 980 855-011	
2059BULK	2PF 980 855-037 – Pack of 16	
20590EBULK	2PF 980 855-017 – Pack of 24	
2059S	2PF 980 855-021	POLISHED STAINLESS STEEL RIM
2059SBULK	2PF 980 855-047 – Pack of 16	
Mounting	Surface mount. Suitable for horizontal or vertical mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2310.09BULK 95968500	Black screw caps (Pack of 4) Stainless steel rim - Polished
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

See page 86 for DuraLED marker lamp accessories.



Ultra slim design
Featuring a thickness of just 9mm

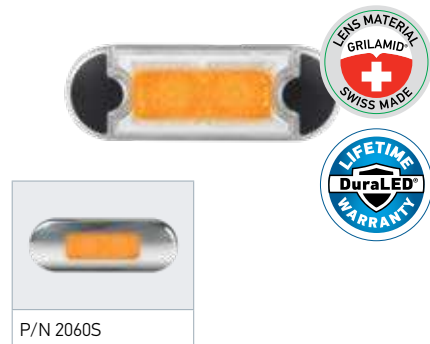
MARKER AND SIGNAL



Compliance	ADR COMPLIANCE	Power Supply	MULTI VOLT	Lens Material	GMD	RF CommSafe	(H)
2060	2PF 980 855-201						
2060BULK	2PF 980 855-227 – Pack of 16						
2060S	2PF 980 855-211						
2060SBULK	2PF 980 855-237 – Pack of 16						
Mounting	Surface mount. Suitable for horizontal or vertical mounting.						
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.						
Power Consumption	0.5W						
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)						
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.						
Spare Parts	9.2310.09BULK 95968500		Black screw caps (Pack of 4) Stainless steel rim - Polished				
Lens Material	Nylon (PA12)						
Compliance	ADR 49/00						
See page 86 for DuraLED marker lamp accessories.							

DuraLED Flush Mount Front End Outline Lamps

Amber surface mount front end outline LED lamp (FEOL) for trailers with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

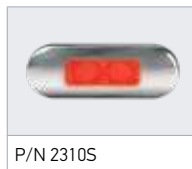


Ultra slim design
Featuring a thickness of just 9mm

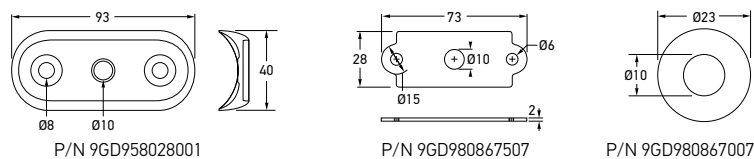
Compliance	ADR COMPLIANCE	Power Supply	MULTI VOLT	Lens Material	GMD	RF CommSafe	(H)
2310	2XA 980 855-301						
2310BULK	2XA 980 855-327 – Pack of 16						
23100EBULK	2XA 980 855-307 – Pack of 24						
2310S	2XA 980 855-311						
2310SBULK	2XA 980 855-337 – Pack of 16						
Other specifications as per P/N 2060.							

DuraLED Flush Mount Rear Position/End Outline Lamps

Red surface mount rear position or rear end outline LED lamp (REOL) with optional stainless steel rim. Featuring a low profile ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



P/N 2310S



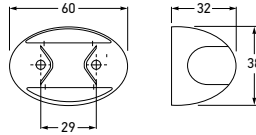
DuraLED Flush Mount Gaskets



9GD980867007	9GD 980 867-007	SEAL ROUND
9GD980867507	9GD 980 867-507	SEAL RECTANGULAR
9GD958028001	9GD 958 028-001	SEAL CURVED

DuraLED Side Marker Lamps

Red/amber side marker LED lamp.
Optic appears clear until illuminated.



P/N 2053

P/N 2053CHROME

2053	2PS 959 660-581	
2053BULK	2PS 959 660-502	PACK OF 4
20530EBULK	2PS 959 660-587	PACK OF 24
2053CHROME	2PS 959 660-691	CHROME PLATED
Mounting	Surface mount.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. P/N 2053BULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 45/01	
See page 86 for DuraLED marker lamp accessories.		

DuraLED Side Marker Lamps - Nylon (PA12)

Red/amber ultra high impact resistant side marker LED lamp featuring nylon (PA12) lens and nylon housing. Optic appears clear until illuminated.



2053GMD	2PS 959 660-481	
2053GMDBULK	2PS 959 660-477	PACK OF 4
2053GMDOEBULK	2PS 959 660-487	PACK OF 24
Mounting	Surface mount.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	As per P/N 2053.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. P/N 2053GMDBULK - Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	

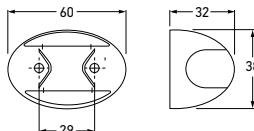
DuraLED Cab Marker/Supplementary Side Direction Indicator Lamps (Cat. 5)

Amber cab marker or supplementary side indicator LED lamp. Optic appears clear until illuminated.



2026	2BP 959 660-301	
2026BULK	2PS 959 660-501	PACK OF 4
Mounting	Surface mount.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	As per P/N 2053.	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 6/00: Cat 5 ADR 45/01	

MARKER AND SIGNAL



2054	2PF 959 570-491	
2054BULK	2PF 959 570-557	PACK OF 4
2054GMD	2PF 959 570-501 – With Nylon (PA12) Lens	
2054GMDBULK	2PF 959 570-517 – With Nylon (PA12) Lens	PACK OF 4
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9.2053.08	Black Nylon housing
Compliance	ADR 49/00	
See page 86 for DuraLED marker lamp accessories.		

DuraLED Front Position/
End Outline Lamps

White ultra high impact resistant front end outline (FEOL) or front position LED lamp featuring nylon (PA12) lens on 2054GMD and nylon housing. Optic appears clear until illuminated.



2051	2PF 959 570-301	
2051BULK	2PF 959 570-304	PACK OF 4
2051GMD	2PF 959 570-101 – With Nylon (PA12) Lens	
2051GMDBULK	2PF 959 570-104 – With Nylon (PA12) Lens	PACK OF 4

Other specifications as per P/N 2054.

DuraLED Front End Outline Lamps

Amber ultra high impact resistant front end outline (FEOL) LED lamp for trailers featuring nylon (PA12) lens on 2051GMD and nylon housing. Optic appears clear until illuminated.



2307	2BA 959 560-431	
2307BULK	2TM 959 560-517	PACK OF 4
2307GMD	2TM 959 560-101 – With Nylon (PA12) Lens	
2307GMDBULK	2TM 959 560-117 – With Nylon (PA12) Lens	PACK OF 4

Other specifications as per P/N 2054.

DuraLED Rear Position/
End Outline Lamps

Red ultra high impact resistant rear end outline (REOL) or rear position LED lamp featuring nylon (PA12) lens on 2307GMD and nylon housing. Optic appears clear until illuminated.



DuraLED Heavy Duty Side Marker Lamp with DT Connector – Red/Amber

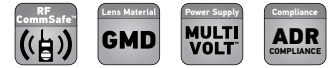
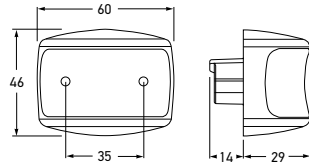
Heavy duty red/amber LED side marker lamp with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



Rear view showing DT connector that allows application of self-adhesive heat shrink.



P/N 4960-P
Not included with lamp.



2073	2PS 980 990-001	
2073BULK	2PS 980 990-007	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	

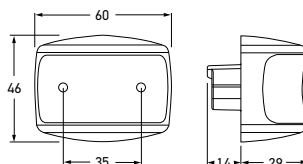
DuraLED Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamp with DT Connector

Heavy duty amber LED cab marker or supplementary side direction indicator lamp with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2076	2BP 980 990-101	
2076BULK	2BP 980 990-107	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 45/01	ADR 6/00: Cat 5

MARKER AND SIGNAL



2074	2PF 980 990-201	
2074BULK	2PF 980 990-207	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

DuraLED Heavy Duty Front Position /End Outline Lamp with DT Connector

Heavy duty white front position or end outline LED lamp (FEOL) with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



DuraLED Heavy Duty Front End Outline Lamp with DT Connector

Heavy duty amber front end outline LED lamp (FEOL) for trailers with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2071	2PF 980 990-401	
2071BULK	2PF 980 990-407	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

DuraLED Heavy Duty Rear Position /End Outline Lamp with DT Connector

Heavy duty red rear position or end outline LED lamp (REOL) with DT connector and nylon housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2312	2XA 980 990-601	
2312BULK	2XA 980 990-607	PACK OF 8
Mounting	Surface mount. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<1W	
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Spare Parts	4960-P 9.2073.09	2 pole DT plug, wedge and 2 contacts. Black Nylon housing
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00	

DuraLED Heavy Duty Side Marker Lamp – Red/Amber

Heavy duty red/amber LED side marker lamp with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.

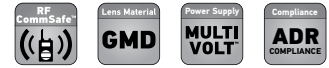
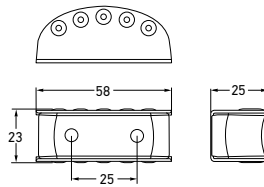


P/N 2058

P/N 2058P



P/N 2058



2058	2PS 980 660-001		MATT FINISH
2058BULK	2XS 980 660-018 – Pack of 4		
2058P	2PS 980 660-021		POLISHED FINISH
2058PBULK	2XS 980 660-038 – Pack of 4		
Mounting	Surface mount. Suitable for horizontal mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 45/01		
The industrial polishing process utilised on the housings may not always be 100% blemish free.			

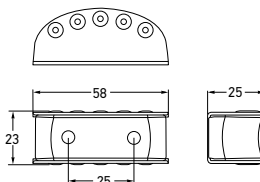
DuraLED Heavy Duty Cab Marker /Supplementary Side Direction Indicator Lamps

Heavy duty LED cab marker or supplementary side direction indicator lamp with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2027	2BP 980 660-101		MATT FINISH
2027BULK	2BP 980 660-118 – Pack of 4		
2027P	2BP 980 660-121		POLISHED FINISH
2027PBULK	2BP 980 660-138 – Pack of 4		
Mounting	Surface mount. Suitable for horizontal mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 45/01 ADR 6/00: Cat 5		
The industrial polishing process utilised on the housings may not always be 100% blemish free.			

MARKER AND SIGNAL



2061	2PF 980 660-201	➔	MATT FINISH
2061BULK	2PF 980 660-218 – Pack of 4		
2061P	2PF 980 660-221	➔	POLISHED FINISH
2061PBULK	2PF 980 660-238 – Pack of 4		
Mounting	Surface mount. Suitable for horizontal mounting.		
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.		
Power Consumption	<1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable. Bulk pack pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 49/00		
The industrial polishing process utilised on the housings may not always be 100% blemish free.			

DuraLED Heavy Duty Front Position/End Outline Lamps

Heavy duty white front position/end outline LED lamp (FEOL) with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



P/N 2061P

DuraLED Heavy Duty Front End Outline Lamps

Heavy duty amber front end outline LED lamp (FEOL) for trailers with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2062	2PF 980 660-301	➔	MATT FINISH
2062BULK	2PF 980 660-318 – Pack of 4		
2062P	2PF 980 660-321	➔	POLISHED FINISH
2062PBULK	2PF 980 660-338 – Pack of 4		
Other specifications as per P/N 2061.			

DuraLED Heavy Duty Rear Position/End Outline Lamps

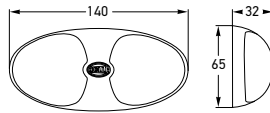
Heavy duty red rear position/end outline LED lamp (REOL) with stainless steel housing. Featuring ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Optic appears clear until illuminated.



2311	2XS 980 660-401	➔	MATT FINISH
2311BULK	2XS 980 660-418 – Pack of 4		
2311P	2XS 980 660-421	➔	POLISHED FINISH
2311PBULK	2XS 980 660-438 – Pack of 4		
Other specifications as per P/N 2061.			

DuraLED Supplementary Side Direction Indicator Lamp (Cat. 5)

LED supplementary side direction indicator featuring amber impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.



P/N 2031BL

2031	2BM 959 700-011	
2031BL	2BM 959 700-012	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Blister pack with 0.5m cable.	
Projected Luminous Area	51 cm ²	
Lens Material	Polycarbonate.	
Compliance	ADR 6/00: Cat 5	

DuraLED Side Marker Lamp with Clear Lens

LED side marker featuring clear impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility. Optic appears clear until illuminated.



P/N 2031BL

2033	2PS 959 700-201	
2033BL	2PS 959 700-212	BLISTER PACK
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Blister pack with 0.5m cable.	
Lens Material	Polycarbonate.	
Compliance	ADR 45/01	

DuraLED Rear Position /End Outline Lamp

LED rear position/rear end outline lamp featuring red impact resistant polycarbonate lens and HELLA's Ultra Wide Visibility Optics for significantly improved side visibility.

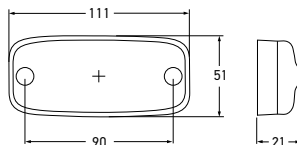


2309	2BA 959 700-301	
Mounting	Two hole surface mount with mounting bushes supplied. Suitable for horizontal mounting.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	3W	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	9NH959028017	Screw boss kit
Lens Material	Polycarbonate.	
Compliance	ADR 49/00	

MARKER AND SIGNAL

LED Side Marker Lamps – Amber

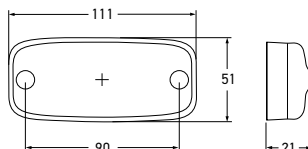
LED side marker with inbuilt amber retro reflector. Bridge circuit for protection against polarity reversal.



2047	2PS 963 639-002	12 VOLT DC
2048	2PS 963 639-012	24 VOLT DC
Power Consumption	12V DC 0.7W 24V DC 1.3W	
Protection	Fully sealed against dust, high-pressure washing/steam jet cleaning	
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.	
Compliance	ADR 74/00: Cat. SM1 ADR 47/00 E24 5881 ECE R3/02 ECE R7/02	

LED Rear Position Lamps – Red

LED rear position lamp with inbuilt red retro reflector. Bridge circuit for protection against polarity reversal.



2305	2TM 963 639-301	12 VOLT DC
2306	2TM 963 639-311	24 VOLT DC
Power Consumption	12V DC 0.5W 24V DC 1W	
Protection	Fully sealed against dust, high-pressure washing/steam jet cleaning	
Cable Length	Pre-wired with 5m of sheathed multi-core cable.	
Compliance	ADR 47/00 ADR 49/00 E24 5881 ECE R3/02 ECE R7/02	

DuraLED Flush Mount Licence Plate Insert

White DuraLED licence plate insert featuring a low profile of only 17mm and an ultra durable nylon (PA12) lens for extreme impact, UV, chemical and stress resistance. Two inserts per licence plate are required for compliance. Can be mounted either above or beside the licence plate. Optic appears clear until illuminated.



Recommended mounting

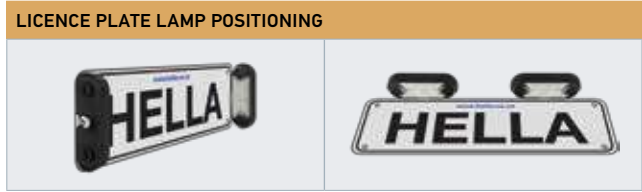
RF CommSafe

Lens Material
GMD

Power Supply
MULTI VOLT

Compliance
ADR COMPLIANCE

2560	2KA 980 869-001	
2560BULK	2KA 980 869-027	PACK OF 16
Mounting	Surface mount.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2310.09-BULK 8HG958029001	Black screw caps (Pack of 4) Angle mount bracket
Lens Material	Nylon (PA12)	
Compliance	ADR 48/00	



LED Licence Plate Lamp

White LED licence plate lamp. Bulk version includes 20mm mounting spacer. Two lamps required for ADR compliance.



P/N 2559

P/N 2559BULK

RF CommSafe

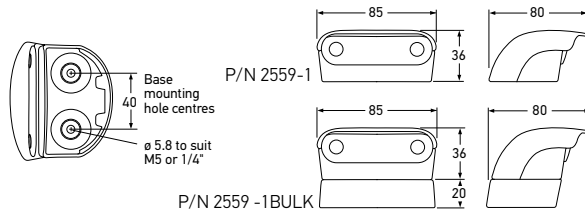
Power Supply
MULTI VOLT

Compliance
ADR COMPLIANCE

2559	2KA 959 640-021	
2559BULK	2KA 959 640-057	PACK OF 8
25590EBULK	2KA 959 640-067 – No Spacer	PACK OF 8
Mounting	Surface mount.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	0.5W	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of multi-core cable. P/N 2559BULK - Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2559.01 9.2559.09 9.2559.19	LED insert Mounting kit - black Mounting kit - white
Compliance	ADR 48/00 ECE R4/00	
Note	Two lamps required for ADR compliance. One each side of licence plate or two above.	

* N25990EBULK - NO SPACER

MARKER AND SIGNAL



2559-1	2KA 959 640-301	
2559-1BULK	2KA 959 640-327	PACK OF 8
2559-1DT	2KA 959 640-381	DT CONNECTOR
Mounting	Surface mount.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 0.5m of multi-core cable. Bulk pack pre-wired with 2.5m of multi-core cable.	
Spare Parts	9.2559.08	Mounting spacer - black
	9.2559.02	LED insert
	9.2559.09	Mounting kit - black
	9.2559.19	Mounting kit - white
Compliance	ADR 48/00	ECE R4/00
Note	One lamp to the side of the licence plate is required for ADR compliance.	

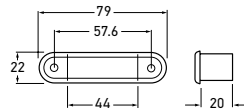
LED Licence Plate Lamp

White LED licence plate lamp. Bulk version includes 20mm mounting spacer. One lamp required for ADR compliance.



LED Licence Plate Lamp Insert

LED Insert to suit LED licence plate Lamp, Part No. 2559

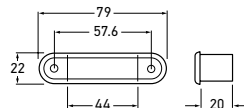


9.2559.01	2KA 959 640-101
Mounting	Flush Mount (gasket and screw caps included)
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	0.5W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of cable.
Compliance	ADR 48/00



LED Licence Plate Lamp Insert

LED Insert to suit LED licence plate Lamp, Part No. 2559-1.



9.2559.02	2KA 959 640-031
Mounting	Flush Mount (gasket and screw caps included)
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	0.5W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of cable.
Compliance	ADR 48/00



RFCCommSafe

LED Lighting Products with Superior Electromagnetic Compatibility



LED Licence Plate Lamp



DuraLED Side Marker Lamp



DuraLED Heavy Duty Side Marker Lamp



DuraLED Heavy Duty Side Marker Lamp

HELLA LED LAMPS – QUALITY WITH PERFORMANCE

Electromagnetic Compatibility (EMC) is an increasingly relevant safety concern for many emergency, mining and industrial applications. As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) from inferior lamps that can have adverse effects on radios and other communication equipment.

HELLA Lamps marketed as RFCCommSafe are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10 Standards.



RFCCommSafe products are specified by the New Zealand Fire Service



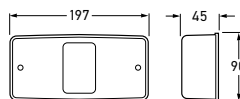
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Technology with Vision



MARKER AND SIGNAL

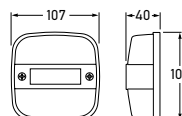


Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp with Retro Reflector

Combination Lamp - Includes red lens insert for use where licence plate lamp is not required.



2368	2VB 900 807-011		12 VOLT
Mounting	Surface mount.		
Globes to Suit		12V	24V
	Stop:	K1221	K2421
	Rear position/Licence plate:	L1210	L2410
	Rear direction indicator:	K1221	K2421
Spare Part	9.2368.01	Lens (includes red and clear lens inserts)	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00 ADR 49/00

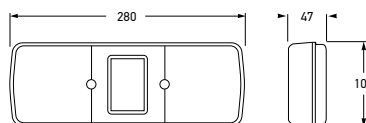


Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp with Retro Reflector

Suitable for insulated earth circuits. Includes red lens insert for use where licence plate lamp is not required.



2396	2VB 905 002-021		12 VOLT
Mounting	Surface mount.		
Globes to Suit		12V	24V
	Stop:	K1221	K2421
	Rear position/Licence plate:	L125	L245
	Rear direction indicator:	K1221	K2421
Spare Part	9.2396.01 9.2397.40	Lens (includes red and clear lens inserts) Lens gasket	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00
Note	Inbuilt retro reflector does not comply with ADR 47/00.		



Stop/Rear Position/Rear Direction Indicator Lamp with Retro Reflector

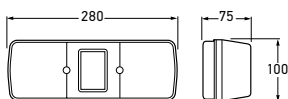
Suitable for insulated earth circuits. Shallow body. Retro reflector area 32cm².



2397	2VA 910 304-001		12 VOLT
2397BULK	2VA 910 304-003		PACK OF 22
2397BL	2VA 910 304-002		BLISTER PACK
Mounting	Surface mount.		
Globes to Suit		12V	24V
	Stop:	K1221	K2421
	Rear position:	L125	L245
	Rear direction indicator:	K1221	K2421
Spare Parts	9.2397.01 9.2397.40	Lens Lens gasket	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00
Note	Bulk pack lamps supplied without globes.		

Stop/Rear Position/Rear Direction Indicator/Licence Plate Lamp with Retro Reflector

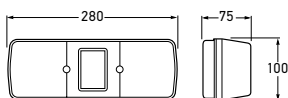
Deep-bodied rear combination lamp with rubber mounted bayonet globe holders. Suitable for insulated earth circuits.



2400	2VB 905 276-001			
Mounting	Surface mount (Mounting bolts included).			
Voltage	Globes to be ordered separately.			
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)	
	Stop:	R1221	R2421	
	Rear position/Licence plate:	G1210	G2410	
	Rear direction indicator:	R1221	R2421	
Spare Part	9.2397.01	Lens		
	9.2397.40	Lens gasket		
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 48/00	ADR 49/00

Stop/Rear Position/Rear Direction Indicator/Licence Plate/Reversing Lamp with Retro Reflector

Deep-bodied rear combination lamp with rubber mounted bayonet globe holders. Suitable for insulated earth circuits.

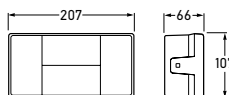


2401	2VD 905 277-001			
Mounting	Surface mount (Mounting bolts included).			
Voltage	Globes to be ordered separately.			
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)	
	Stop/Rear position/Licence plate:	S1221/5V	S2421/5V	
	Rear direction indicator:	R1218, R1221, R1232	R2418, R2421	
	Reverse:	G1210	G2410	
Spare Part	9.2401.01	Lens		
	9.2397.40	Lens gasket		

MARKER AND SIGNAL

Ford Type Stop/Rear Position/
Rear Direction Indicator/Reversing
Lamps

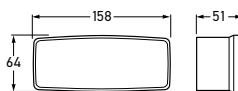
Suitable for insulated earth circuits.



2414	2VP 006 040-112	LEFT HAND SIDE	
2415	2SK 905 289-001	RIGHT HAND SIDE	
Mounting	Surface mount. Suitable for horizontal mounting only.		
Voltage	Globes to be ordered separately.		
Globes to Suit		12V	24V
	Stop:	R1221	R2421
	Rear position:	G1210	G2410
	Rear direction indicator:	R1221	R2421
	Reverse:	R1221	R2421
Spare Parts	9.2414.01 9.2415.01	Lens to suit 2414 Lens to suit 2415	
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 49/00



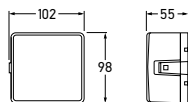
P/N 2414 - LEFT HAND SIDE



Stop/Rear Position/Rear Direction
Indicator Lamps

Right-hand-side version includes licence
plate lamp.

2419	2SD 003 184-032	LEFT HAND SIDE	
2420	2SE 003 184-102 – With Licence Plate Lamp	RIGHT HAND SIDE	
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)
	Stop:	R1221	R2421
	Rear position/Licence plate:	G1210	G2410
	Rear direction indicator:	R1221	R2421
Spare Parts	9.2419.01 9.2420.01	Lens to suit 2419 Lens to suit 2420	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00



Stop/Rear Position/Rear Direction
Indicator/Licence Plate Lamp

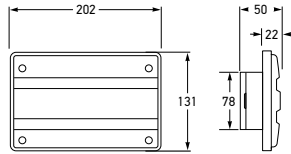
Includes red lens insert for use where licence
plate lamp is not required.

2421	2SE 910 349-001		
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit		12V (Bayonet base)	24V (Bayonet base)
	Stop:	R1221	R2421
	Rear position/Licence plate:	G1210	G2410
	Rear direction indicator:	R1221	R2421
Spare Parts	9.2421.01	Lens to suit 2421 (includes red and clear inserts)	
Compliance	ADR 6/00: Cat 2a	ADR 48/00	ADR 49/00



Designline Stop/Rear Position Lamps with Retro Reflector

Single Globe holder. Suitable for insulated earth circuits. Reflector area 35cm².



2321	2TA 958 606-001		
2321PC	2TA 958 606-011		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	S1221/5V (Bayonet base)	
	24V	S2421/5V (Bayonet base)	
Compliance	ADR 47/00	ADR 49/00	

Designline Rear Direction Indicator Lamps

Single Globe holder. Suitable for insulated earth circuits.



2145	2BA 958 607-001		
2145PC	2BA 958 564-271		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	R1221 (Bayonet base)	
	24V	R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Compliance	ADR 6/00: Cat 2a		

Designline Reversing Lamps

Single Globe holder. Suitable for insulated earth circuits.



2046	2ZR 958 607-021		
2046PC	2ZR 958 607-031		PC LENS
Mounting	Recess mount with 78 x 145mm opening. Suitable for horizontal or vertical mounting.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	R1221 (Bayonet base)	
	24V	R2421 (Bayonet base)	
Additional Function	Front Position or Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Compliance	ADR 1/00		

SPARE PARTS FOR DESIGNLINE RECESS MOUNT LAMPS

9.2320.01	Red lens	9.2043.05	Lens or base gasket
9.2321PC.01	Red Polycarbonate lens	9.2041.08	Single contact globe holder (Includes 12V Globe)
9.2144.01	Amber lens	9.2320.08	Double contact globe holder (Includes 12V Globe)
9.2145PC.01	Amber Polycarbonate lens		
9.2041.01	Clear lens		
9.2046PC.01	Clear Polycarbonate lens		

MARKER AND SIGNAL

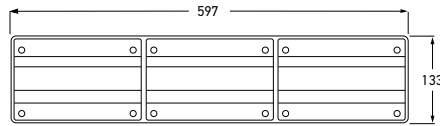


Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.



2422	2VA 958 562-001	12 VOLT	
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Globes to Suit	12V (Bayonet base) Stop/rear position: S1221/5V Rear direction indicator: R1221	24V (Bayonet base) S2421/5V R2421	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00



Designline Stop/Rear Position /Rear Direction Indicator Lamp with Retro Reflector

Suitable for insulated earth circuits.



2423	2VA 958 616-001		
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V (Bayonet base) Stop/rear position: 2 x S1221/5V Rear direction indicator: R1221	24V (Bayonet base) 2 x S2421/5V R2421	
Compliance	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00



Designline Stop/Rear Position /Rear Direction Indicator/Reversing Lamp with Retro Reflector

Suitable for insulated earth circuits.



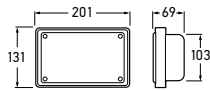
2424	2VA 958 616-031			
Mounting	Two bolt surface mount. Suitable for horizontal or vertical mounting.			
Voltage	Globes to be ordered separately.			
Globes to Suit	12V (Bayonet base) Stop/rear position: S1221/5V Rear direction indicator: R1221 Reversing: R1221	24V (Bayonet base) S2421/5V R2421 R2421		
Compliance	ADR 1/00	ADR 6/00: Cat 2a	ADR 47/00	ADR 49/00

SPARE PARTS FOR DESIGNLINE SURFACE MOUNT LAMPS

9.2320.01	Red lens	9.2320.08	Double contact globe holder (Includes 12V Globe)
9.2321PC.01	Red Polycarbonate lens	9.2041.09	Single housing
9.2144.01	Amber lens	9.2041.09BULK	Single housing (pack of 10)
9.2145PC.01	Amber Polycarbonate lens	9.2422.09	Double housing
9.2041.01	Clear lens	9.2422.09BULK	Double housing (pack of 10)
9.2046PC.01	Clear Polycarbonate lens	9.2423.09	Triple housing
9.2043.05	Lens or base gasket	9.2423.06	Installation pack
9.2041.08	Single contact globe holder (Includes 12V Globe)		

Jumbo Stop/Rear Position Lamp with Retro Reflector

Single globe holder. Suitable for insulated earth circuits.



2319	2TA 910 664-021		12 VOLT
Mounting	Recess mount with 103 x 171 mm opening.		
Globes to Suit	12V 24V	S1221/5V (Bayonet base) S2421/5V (Bayonet base)	
Spare Part	9.2319.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 47/00	ADR 49/00	

Jumbo Rear Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



2143	2BA 910 663-081		12 VOLT
Mounting	Recess mount with 103 x 171 mm opening.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Spare Part	9.2143.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 6/00: Cat 2a		

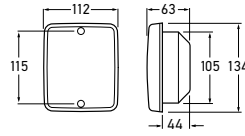
Jumbo Reversing Lamp

Single globe holder. Suitable for insulated earth circuits.



2043	2ZR 910 663-091		12 VOLT
Mounting	Recess mount with 103 x 171 mm opening.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Spare Part	9.2043.01 9.2043.05 9.2319.09	Lens Lens gasket Housing assembly (no globe holder)	
Compliance	ADR 1/00		

MARKER AND SIGNAL



Stop Lamp

Single globe holder. Suitable for insulated earth circuits.



2323	2DA 003 236-331	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Spare Part	9.2323.01	Lens
Compliance	ADR 49/00	



Rear Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



2149	2BA 003 236-321	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.2149.01	Lens
Compliance	ADR 6/00: Cat 2a	



Reversing Lamp

Single globe holder. Suitable for insulated earth circuits.



1406	2ZR 003 236-311	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	R1221 (Bayonet base)
	24V	R2421 (Bayonet base)
Additional Function	Front Position or Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.1406.01	Lens
Compliance	ADR 1/00	



Rear Position/Outline Lamp

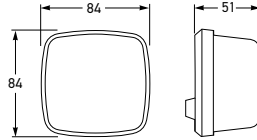
Single globe holder. Suitable for insulated earth circuits.



2322	2SA 003 236-341	
Mounting	Recess mount with 97 x 105mm opening.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V	G125 (Bayonet base)
	24V	G245 (Bayonet base)
Spare Part	9.2322.01	Lens
Compliance	ADR 49/00	

Front Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



2148	2BA 003 014-111		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Spare Part	9.2148.01	Amber lens	
Compliance	ADR 6/00: Cat 1		

Stop/Rear Position/Licence Plate Lamp

Double globe holder.



2384	2ST 003 014-143		
Mounting	Surface mount.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	L245
	Stop: Rear position/Licence plate:	L125	
Spare Part	9.2384.01	Red lens	
Compliance	ADR 48/00	ADR 49/00	

Rear Direction Indicator Lamp

Single globe holder.

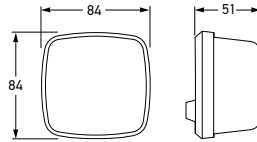


2147	2BA 003 014-011	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.	
Spare Part	9.2147.01	Amber lens
Compliance	ADR 6/00: Cat 2a	

MARKER AND SIGNAL

Reversing Lamp

Single globe holder.



1405	2ZR 003 014-091		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Spare Part	9.1405.01	Clear lens	
Compliance	ADR 1/00		

Front Position/End Outline Lamp

Single globe holder.



2064	2PF 003 014-071		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	9.2064.01	Clear lens	
Compliance	ADR 49/00		

Rear Position/Outline Lamp

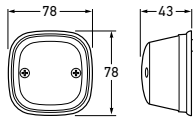
Single globe holder.



2325	2SA 003 014-051		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	9.2325.01	Lens	
Compliance	ADR 49/00		

Front Direction Indicator Lamp

Single globe holder. Suitable for insulated earth circuits.



2140	2BA 905 272-001	CHROME BASE
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	K1221 K2421
Additional Function	Front End Outline Lamp when used with 12V (L125) or 24V (L245) 5W festoon globes.	
Spare Parts	9.2140.01 9.2397.40	Amber lens Lens gasket
Compliance	ADR 6/00: Cat 1	

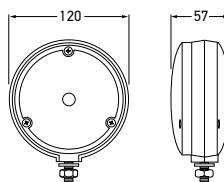
Front Position/Outline Lamp

Single globe holder. Suitable for insulated earth circuits.



2141	2BA 905 997-001	CHROME BASE
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	L125 L245
Spare Parts	9.2141.01 9.2397.40	Clear lens Lens gasket
Compliance	ADR 49/00	

MARKER AND SIGNAL

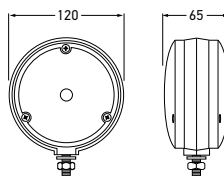


Front Direction Indicator Lamp (Cat. 1)

Single-sided front direction indicator. Black backing plate.



2128	2BA 900 763-301		12 VOLT
Mounting	Single bolt mount.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 2.6702.03 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Backing plate Lens gasket	
Compliance	ADR 6/00: Cat 1		

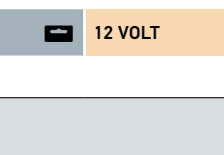


Front Direction Indicator /Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided direction indicator lamp.



2127	2BA 900 763-291		12 VOLT
Mounting	Single bolt mount.		
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	



Front Direction Indicator /Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

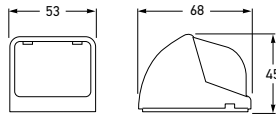
Double-sided direction indicator lamp with double-contact globe holder. Suitable for insulated earth circuits.



2129	2BA 900 763-311		12 VOLT
Mounting	Single bolt mount.		
Globes to Suit	12V 24V	FD1221 (Bayonet base) FD2421 (Bayonet base)	
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.		
Spare Part	2.9800.09 2.9800.08 2.9801.01 2.9803.09 2.9800.091 9.2397.40	Amber lens Clear lens Red lens Red lens with inbuilt retro reflector Blue lens Lens gasket	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

**Front Position/Front End
Outline Lamp – White**

Fitted with polycarbonate lens and single
Globe holder.



2066	2PF 006 679-001	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	G1210 (Bayonet base) G2410 (Bayonet base)
Compliance	ADR 49/00	

**Cab Marker/Front End Outline
Lamp – Amber**

Fitted with polycarbonate lens and single
Globe holder.



2067	2PF 006 679-011	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	G125 (Bayonet base) G245 (Bayonet base)
Compliance	ADR 45/01	ADR 49/00

**Rear Position/Outline Lamp –
Red**

Fitted with polycarbonate lens and single
Globe holder.

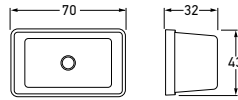




2324	2SA 006 679-021	
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	G1210 (Bayonet base) G2410 (Bayonet base)
Compliance	ADR 49/00	

MARKER AND SIGNAL

Side Marker Lamp

Suitable for insulated earth circuits.





 		
2042	2PF 905 055-011	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V 24V	M123 x 2 M243 x 2
Spare Parts	9.2042.01	Red/Amber lens
Compliance	ADR 45/01	

Supplementary Side Direction Indicator Lamp (Cat. 5)

Suitable for insulated earth circuits.




 		
2044	2PF 905 055-021	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V 24V	2 x M123 2 x M243
Spare Part	9.2044.01 9.2397.40	Amber lens Lens gasket
Compliance	ADR 6/00: Cat 5	

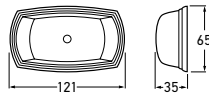
Marker Lamp – Red

Suitable for insulated earth circuits.



		
2045	2PF 905 055-031	12 VOLT
Mounting	Surface mount.	
Globes to Suit	12V 24V	M123 x 2 M243 x 2
Spare Parts	9.2045.01	Red lens

Side Marker Lamp



2029	2PS 900 139-012		12 VOLT
Mounting	Surface mount.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Parts	2.9800.01	Red/Amber lens	
Compliance	ADR 45/01		

Side Marker Lamp with Metal Guard



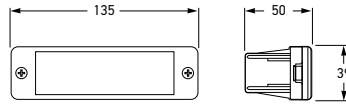
2037	2PS 905 263-001		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Parts	2.9800.01 9.2037.50	Red/Amber lens Metal guard	
Compliance	ADR 45/01		

Supplementary Side Direction Indicator Lamp (Cat. 5)



2030	2PF 900 139-022		
Mounting	Surface mount.		
Voltage	Globe to be ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Part	2.9800.02	Amber lens	
Compliance	ADR 6/00: Cat 5		

MARKER AND SIGNAL

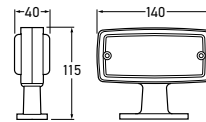


Front Direction Indicator Lamp (Cat. 1)

Universal flush mount front direction indicator lamp ideal for coach or bull-bar applications.



2101	2BA 002 939-171	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 R2421
Spare Part	9.2101.01	Amber lens
Compliance	ADR 6/00: Cat 1	

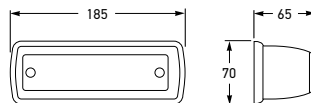


Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

Double-sided front direction indicator lamp. Suitable for insulated earth circuits.



2126	2BA 905 115-001	
Mounting	Pedestal mount	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Additional Function	Supplementary side direction indicator lamp where 12V (G125) or 24V (G245) Globes are used.	
Spare Part	9.2126.01	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5



Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 6)

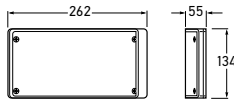
Single globe holder.



2142	2BA 905 273-001	
Mounting	Surface mount	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 R2421
Additional Function	Supplementary side direction indicator lamp (Cat. 5) where 12V (G125) or 24V (G245) Globes are used.	
Spare Part	9.2142.01	Amber lens
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 6

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

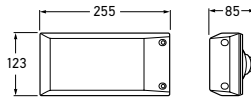
Wrap-around front direction indicator lamp. Suitable for insulated earth circuits.



2150	2BA 005 603-001		
Mounting	Flush mount		
Voltage	Globe to be ordered separately.		
Globes to Suit	12V	R1221 (Bayonet base)	
	24V	R2421 (Bayonet base)	
Additional Function	Front End Outline Lamp when used with 12V (G125) or 24V (G245) 5W bayonet base globes.		
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	

Front Direction/Supplementary Side Direction Indicator Lamp (Cat. 1 and 5)

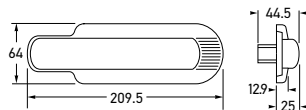
Curved front direction indicator with colourless front lens and internal amber filter producing the required amber light when activated. Includes separate front position lamp function. Supplied complete with protective rubber boot.



2158	2BE 004 119-021		
Mounting	Flush mount		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	24V	
	Front position: W125	W245	
	Direction indicator: R1221	R2421	
Compliance	ADR 6/00: Cat 1	ADR 6/00: Cat 5	ADR 49/00

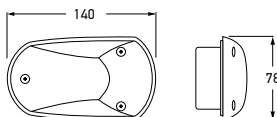
LED Auxiliary Side Indicator Cat. 6

LED side indicator lamp approved for heavy vehicles and buses/coaches, sealed against dust and water, it will provide many years of trouble free usage. Optic appears clear until illuminated.



2BM 011 788-031	12 VOLT DC		
2BM 011 788-021	24 VOLT DC		
Mounting	Horizontal surface mount.		
Power Consumption	12V DC	4.8W	
	24V DC	3.5W	
Protection	IP 6K9 Fully sealed against dust, high-pressure washing/steam jet cleaning		
Cable Length	Pre-wired with 5m of sheathed multi-core cable.		
Compliance	Ⓔ1) 7506	ECE R6/01	ADR 6/00 Cat. 6

MARKER AND SIGNAL



Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting.

2155	2BM 008 355-002	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	RY1221 (Bayonet base) R2421 (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet.
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		



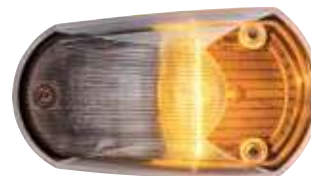
P/N 9.2155.05



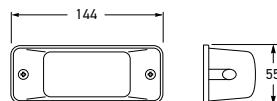
Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction lamp suitable for either left or right hand mounting. Optic appears clear until illuminated.

2155CLR	2BM 008 355-012	
Mounting	Flush mount. Suitable for left and right hand mounting.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	RY1221 (Bayonet base) RY2421LL (Bayonet base)
Spare Part	9.2155.05	Wiring harness set - with sealing grommet.
Compliance	ADR 6/00: Cat 6	
Arrow on lens must face direction of travel.		



P/N 9.2155.05



Supplementary Side Direction Indicator Lamp (Cat. 6)

Side mounted direction indicator lamp with rubber base. Suitable for insulated earth circuits.

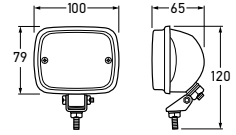
2153	2BM 006 692-012	LEFT HAND SIDE
2154	2BM 006 692-022	RIGHT HAND SIDE
Mounting	Surface mount.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Compliance	ADR 6/00: Cat 6	



Arrow on lens must face direction of travel.
Replacing ADR 6/00: Cat. 5 Supp. Side Direction Indicator Lamps with ADR 6/00: Cat. 6 Supp. Side Direction Indicator Lamps is permitted in all instances. Arrow on lens must face direction of travel.

Reversing Lamp – Chrome

Robust chrome housing.



1403	2ZR 003 030-171	
Mounting	Bracket with fixing screw for mounting on vertical or horizontal surfaces.	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	R1221 (Bayonet base) R2421 (Bayonet base)
Compliance	ADR 1/00	

REVERSING LAMPS

FIND MORE IN THE WORK LAMPS SECTION.

POWER BEAM 1000
SEE PAGE 211



MODUL 70 LED GEN. III
SEE PAGE 210



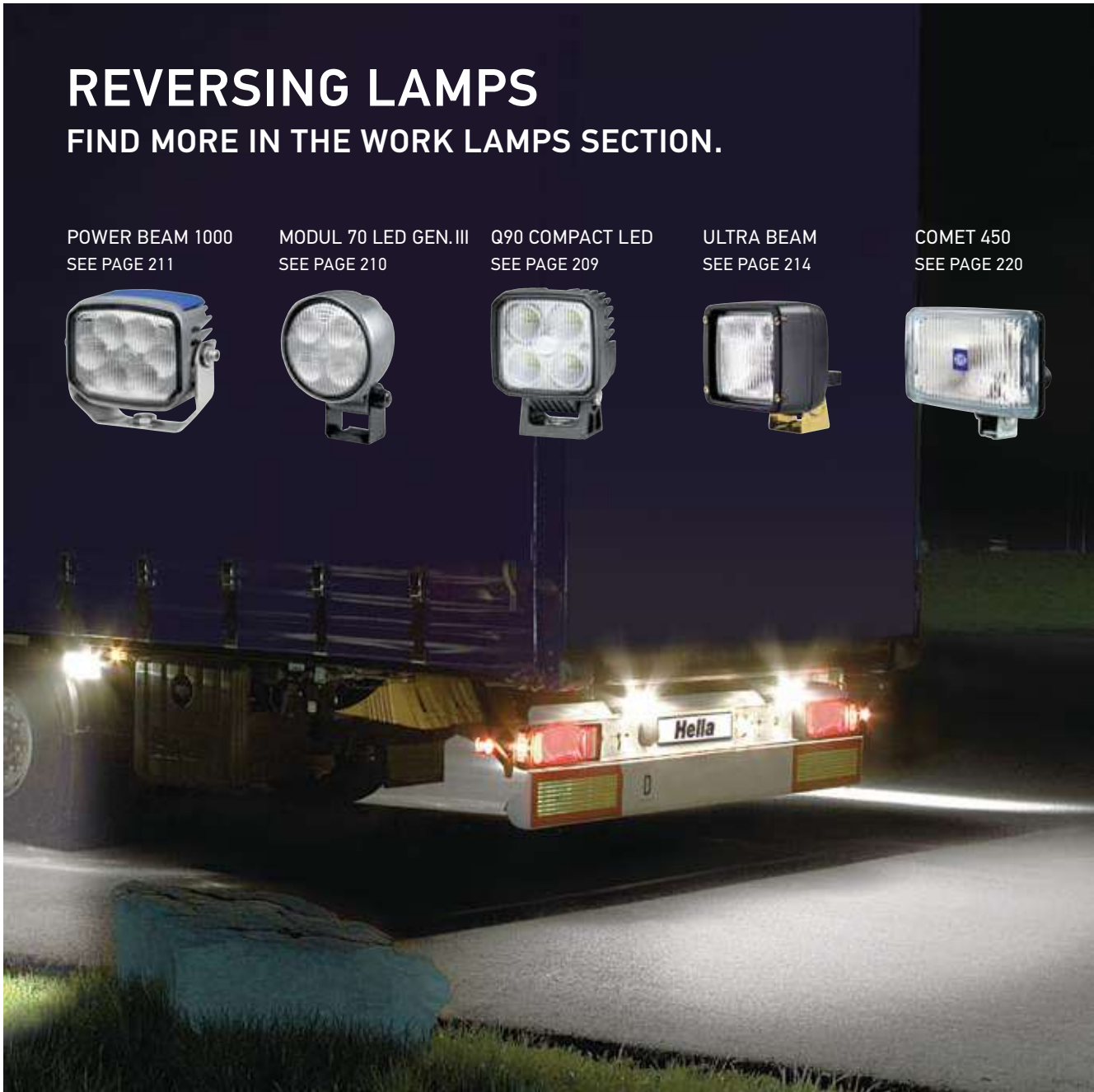
Q90 COMPACT LED
SEE PAGE 209



ULTRA BEAM
SEE PAGE 214





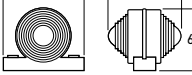
COMET 450
SEE PAGE 220



MARKER AND SIGNAL

Side Marker Lamp



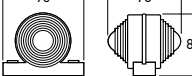
Rubber body double-sided lamp. Suitable for insulated earth circuits.

 			
2006	2PF 910 315-041	12 VOLT	
Mounting	Pedestal mount.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Parts	9.2006.01 9.2006.02 2.4602.07	Red lens Amber lens Globe holder	
Compliance	ADR 45/01		



Side Marker Lamp


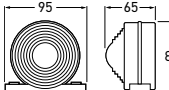
Rubber body double-sided lamp. Suitable for insulated earth circuits.

 			
2009	2PF 900 711-261	12 VOLT	
Mounting	Pedestal mount.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Parts	2.4602.02 2.1879.03 2.4602.021	Red lens Amber lens Clear lens	
Compliance	ADR 45/01		



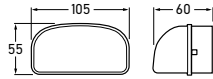
Marker Lamp – Red

Rubber body single-sided lamp. Suitable for insulated earth circuits.

			
2023	2PF 900 711-301	12 VOLT	
Mounting	Pedestal mount.		
Globes to Suit	6V L65	12V L125	24V L245
Spare Parts	2.4602.02 2.4602.021 2.4602.07	Red lens Clear lens Globe holder	

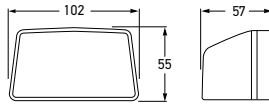


Licence Plate Lamp



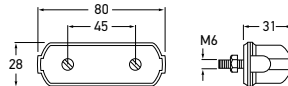
2550	2KA 001 386-285		
Mounting	Surface mount.		
Voltage	Globe to ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Compliance	ADR 48/00		

Licence Plate Lamp



2553	2KA 951 068-042		12 VOLT
Mounting	Surface mount.		
Globes to Suit	6V G610	12V G1210 (Bayonet base)	24V G2410 (Bayonet base)
Compliance	ADR 48/00		

Licence Plate Lamp



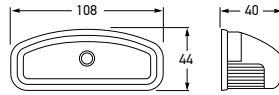
2555	2KA 001 389-101		
Mounting	Surface mount. Two bolt mount.		
Voltage	Globe to ordered separately.		
Globes to Suit	6V L65	12V L125	24V L245
Compliance	ADR 48/00		

Two lamps required for ADR compliance.

MARKER AND SIGNAL

Licence Plate Lamp

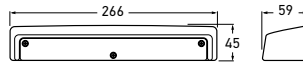
Fitted with two globe holders.



2557	2KA 900 967-031			12 VOLT
Mounting	Surface mount.			
Globes to Suit	12V 24V	HL124 x 2 HL244 x 2		
Spare Part	9.2557.01	Lens		
Compliance	ADR 48/00			

Licence Plate Lamp

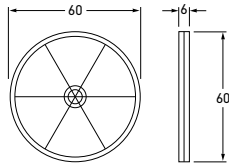
Fitted with two globe holders.



2558	2KA 004 525-001			
Mounting	Surface mount.			
Voltage	Globes to ordered separately.			
Globes to Suit	12V 24V	L125 x 2 L245 x 2		
Compliance	ADR 48/00			

Retro Reflectors

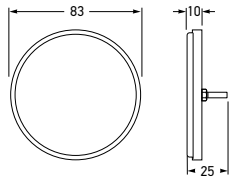
60mm diameter complete with mounting screw, 22cm².



2915	8RA 002 014-033		RED
2915/1000	8RA 002 014-036		
2916	8RA 002 014-131		AMBER
2916/1000	8RA 002 014-054		
2917	8RA 002 014-861		WHITE
2917/1000	8RA 002 014-043		
Compliance		ADR 47/00	

Retro Reflector - Red

83mm diameter red acrylic retro reflector with black rim, 48cm².

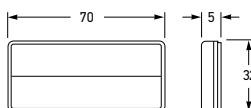


2902	8RA 002 016-113	
Mounting	Surface mount (single bolt mount - 16mm)	
Compliance	ADR 47/00	

MARKER AND SIGNAL

Retro Reflectors

70 x 31.5mm self adhesive, 18cm².



2919	8RA 004 412-002		AMBER
2919BULK	8RA 004 412-008 - Pack of 20		
2919/200	8RA 004 412-006 - Pack of 200		
2920	8RA 004 412-022		RED
2920/200	8RA 004 412-021 - Pack of 200		
2921	8RA 004 412-012		WHITE
2921/200	8RA 004 412-011 - Pack of 200		

Compliance ADR 47/00

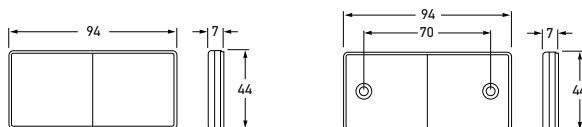


P/N 2920

P/N 2921

Retro Reflectors

94 x 44mm self adhesive (except two bolt hole version), 33cm².



P/N 2923-2 - Two bolt holes

2922	8RA 003 326-043		AMBER
2922BULK	8RA 003 326-044 - Pack of 20		
2922-2/200	8RA 003 326-017 - Two bolt holes - Pack of 200		
2923	8RA 003 326-033		RED
2923-2BULK	8RA 003 326-001 - Two bolt holes - Pack of 20		
2924	8RA 003 326-053		WHITE
2924-2BULK	8RA 003 326-021 - Two bolt holes - Pack of 20		

Compliance ADR 47/00



P/N 2922



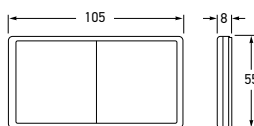
P/N 2922

P/N 2923

P/N 2924

Retro Reflectors

105 x 55mm self adhesive, 50cm².



2925	8RB 004 713-002		AMBER
2926	8RB 342 007-101		RED
2927	8RB 950 766-001		WHITE

Compliance ADR 47/00



P/N 2926

P/N 2927

DuraLED Accessories

Spare screw caps or screw bosses for the DuraLED lamp range. Two screw caps and two screw bosses are required per lamp.



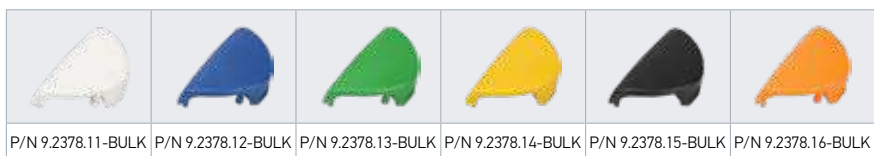
P/N 9.2330.15

SCREW CAPS - DURALED		
9.2330.10	9HD 959 065-038 - Pack of 4	■ RED
9.2330.11	9HD 959 065-018 - Pack of 4	■ WHITE
9.2330.12	9HD 959 065-068 - Pack of 4	■ BLUE
9.2330.13	9HD 959 065-058 - Pack of 4	■ GREEN
9.2330.14	9HD 959 065-048 - Pack of 4	■ YELLOW
9.2330.15	9HD 959 065-008 - Pack of 4	■ BLACK
9.2330.16	9HD 959 065-078 - Pack of 4	■ AMBER



P/N 9.2378.10BULK

SCREW CAPS - DURALED COMBI-S/COMBI-R		
9.2377.08	9HD 980 712-021	■ GREY
9.2378.08	9HD 980 712-001	■ BLACK
9.2378.10BULK	9HD 980 712-037 - Pack of 4	■ RED
9.2378.11BULK	9HD 980 712-017 - Pack of 4	■ WHITE
9.2378.12BULK	9HD 980 712-067 - Pack of 4	■ BLUE
9.2378.13BULK	9HD 980 712-057 - Pack of 4	■ GREEN
9.2378.14BULK	9HD 980 712-047 - Pack of 4	■ YELLOW
9.2378.15BULK	9HD 980 712-007 - Pack of 4	■ BLACK
9.2378.16BULK	9HD 980 712-077 - Pack of 4	■ AMBER



P/N 9.2330.08

SCREW CAP AND BOSS SET (2 OF EACH KIND)		
9.2330.08	9HD 958 421-141 - Black DuraLED Caps - Pack of 4	
9.2378.09	9HD 980 712-801 - Black DuraLED Combi-S Caps - Pack of 4	
9.2377.09	9HD 980 712-821 - Grey DuraLED Combi-S Caps - Pack of 4	



P/N 9.2330.17

SCREW BOSS	
9.2330.17	9NH 959 059-008 - Pack of 4

P/N 98071900



P/N 98071901

MOUNTING SPACERS - DURALED® COMBI		
98071900	8HG 980 719-001	■ BLACK
98071901	8HG 980 719-011	■ WHITE

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer, or through the centre.

DuraLED Marker Lamp Accessories

Spare mounting shrouds for the surface mount marker and surface mount courtesy lamp range. One mounting shroud is required per lamp.

SHROUDS - DURALED SURFACE MOUNT		
9.2053.08	9BG 910 274-001 - Nylon Retrofit Style	■ BLACK
9.2053.08BULK	9BG 959 565-308 - Nylon Retrofit Style - Pack of 4	■ BLACK
9.2053.10BULK	8HG 959 565-038 - Retrofit Style - Pack of 4	■ RED
9.2053.11BULK	8HG 959 565-018 - Retrofit Style - Pack of 4	■ WHITE
9.2053.12BULK	8HG 959 565-068 - Retrofit Style - Pack of 4	■ BLUE
9.2053.13BULK	8HG 959 565-058 - Retrofit Style - Pack of 4	■ GREEN
9.2053.14BULK	9BG 959 565-048 - Retrofit Style - Pack of 4	■ YELLOW
9.2053.15BULK	9BG 959 565-078 - Retrofit Style - Pack of 4	■ AMBER
9.2053.20BULK	9BG 959 565-408 - Retrofit Style - Pack of 4	■ CHROME PLATED

Retrofit style allows replacement of shroud without cutting cable of lamp.



P/N 9.2053.08



P/N 9.2053.11BULK



P/N 9.2053.20BULK



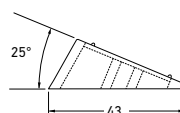
P/N 9.2053.10BULK

P/N 9.2053.12BULK

P/N 9.2053.13BULK

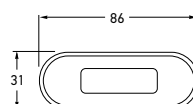
P/N 9.2053.14BULK

P/N 9.2053.15BULK



P/N 9.2053.07

ANGLE MOUNT - DURALED SURFACE MOUNT		
9.2053.07	8HG 910 273-001	■ BLACK



P/N 95968600

RIMS - DURALED FLUSH MOUNT		
95968500	9AB 959 685-002 - 316 Stainless Steel	■ POLISHED
95968502	9AB 959 685-022 - 316 Stainless Steel	■ GOLD PLATED
95968506	9AB 959 685-062 - 316 Stainless Steel	■ SATIN CHROME PLATED
95968600	9AB 959 686-001	■ BLACK
95968601	9AB 959 686-011	■ WHITE

To suit wide marker and signal lamps with 29mm wide rim. Does not fit narrow rim lamps.



P/N 95968500

P/N 95968502

P/N 95968506

P/N 95968601

DuraLED Marker Lamp Accessories



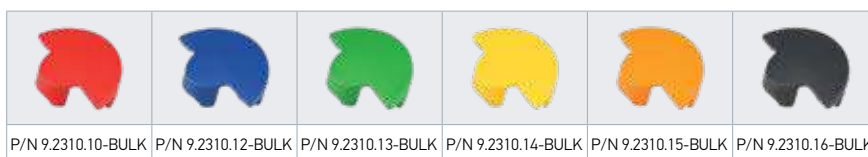
P/N 9.2310.09-BULK



P/N 9.2310.11-BULK

SCREW CAPS - DURALED FLUSH MOUNT		
9.2310.09BULK	9HD 980 858-007 - Pack of 4	■ BLACK
9.2310.10BULK	9HD 980 858-037 - Pack of 4	■ RED
9.2310.11BULK	9HD 980 858-017 - Pack of 4	■ WHITE
9.2310.12BULK	9HD 980 858-067 - Pack of 4	■ BLUE
9.2310.13BULK	9HD 980 858-057 - Pack of 4	■ GREEN
9.2310.14BULK	9HD 980 858-047 - Pack of 4	■ YELLOW
9.2310.15BULK	9HD 980 858-077 - Pack of 4	■ AMBER
9.2310.16BULK	9HD 980 858-027 - Pack of 4	■ GREY

Pack sizes of 50 available upon request.



P/N 9.2310.10-BULK P/N 9.2310.12-BULK P/N 9.2310.13-BULK P/N 9.2310.14-BULK P/N 9.2310.15-BULK P/N 9.2310.16-BULK

DuraLED DT Marker and Signal Lamp Accessories



P/N 9.2073.09



P/N 4963-P

HOUSING	
9.2073.09	9BG 980 996-001 - Pack of 4

DT PLUG, WEDGE AND CONTACTS		
4960-P	8JA 959 736-811	2 POLE
4963-P	8JA 959 736-801	6 POLE



P/N 4960-P

EuroLED® Accessories

Spare covers or screw bosses for the EuroLED® range of lamps. One cover and two screw bosses are required per lamp.



P/N 9HD959027007



P/N 8HG959952012



P/N 9NH959028017

COVERS		
9HD 959 027-007	Single	■ BLACK
9HD 959 027-017	Single	■ OFF WHITE

SCREW BOSS		
9NH 959 028-017	Pack of 2	■ OFF WHITE

MOUNTING SPACER		
8HG 959 952-002	Single	■ BLACK
8HG 959 952-012	Single	■ WHITE



P/N 9HD959027017 P/N 8HG959952002

MARKER AND SIGNAL

9.2394.08	8HG 980 726-001	FRAME
9.2394.09	8HG 980 726-002	15MM SPACER

Mounting spacer allows lamps to be surface mounted with the cable exiting any side of the spacer, or through the centre.

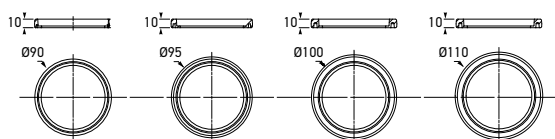
LED Combination Trailer Lamp Accessories

To suit LED combination lamp P/Ns 2394 and 2395.



P/N 9.2394.09

P/N 9.2394.08



98069600	9GD 980 696-002	90MM O.D
98069620	9GD 980 696-201	95MM O.D
98069640	9GD 980 696-401	100MM O.D
98069660	9GD 980 696-601	110MM O.D

83mm Round Lamps - Mounting Rings

Mounting rings to suit 83mm round lamp range. Allows retro-fitting of lamp into existing applications with mounting holes larger than a diameter of 83mm.



MOUNTING GASKET BASE, SPACERS AND 1¼" SCREWS		
9.2361.08	9HD 980 768-801	

Allows Jumbo-S lamps to be surface mounted.

Jumbo-S Accessories

Accessories for the Jumbo-S LED lamp range.



SCREW CAPS AND 1" SCREWS		
9.2361.09	9HD 980 767-801 - Set of 4	

HOUSING - SINGLE, DOUBLE, TRIPLE MODULE & BULK PACKS		
9.2041.09	9BG 958 568-021 - Single	
9.2041.09BULK	9BG 958 568-027 - Pack of 10	
9.2422.09	9BG 958 559-011 - Double	
9.2422.09BULK	9BG 958 559-017 - Pack of 10	
9.2423.09	9BG 958 615-011 - Triple	

Designline/Jumbo-S/Jumbo Accessories

Housings for the Designline/ Jumbo-S/ Jumbo lamp range.



Licence Plate Lamp Accessories

Mounting kit for licence plate lamp P/N 2559. Includes a housing, cover, screw bosses, screws and screw caps. One mounting kit is required per lamp.



MOUNTING KIT		
9.2559.09	8HG 959 647-031 - Single	■ BLACK
9.2559.19	8HG 959 647-041 - Single	■ WHITE

Suits Part No. 2559, 2308, 2055 and all narrow rim LED courtesy lamps. P/N 9.2559.09 is included with every LED Licence Plate pack (display and bulk packs).



MOUNTING SPACER AND EXTENDED SCREW BOSSES		
9.2559.08	8HG 959 647-021	■ BLACK

Suits LED Licence Plate Lamp, Part No. 2559. Included in every LED Licence Plate Bulk Pack, Part No. 2559BULK.



LED LICENCE PLATE LAMP MOUNTING KIT		
8HG 959 647-001		■ BLACK

Mounting Kit including housing, cover, spacer and extended screw bosses for installation of LED licence plate lamps according to ADR requirements. One kit required per lamp.

Surface Mount Strip Lamp - Screw Caps



SURFACE MOUNT STRIP LAMP SCREW CAPS		
9.1009.09	9HD 980 885-017 - Pack of 4	■ CHARCOAL
9.2652.09	9HD 980 885-007 - Pack of 4	■ WHITE
9.1009.10	9HD 980 885-107 - Pack of 4	■ CHROME PLATED

Marker and Courtesy Lamp Gaskets

Gaskets for narrow and wide rim LED courtesy lamps. Curved mount gasket (P/N 9GD959515207) is designed to suit 64mm (2.5") pipes. Flexibility allows this particular gasket to suit a variety of curve radii.



NARROW RIM (LAMP WIDTH 22MM)		
9GD 959 515-127	Pack of 4	RUBBER
9GD 959 515-207	Curved mount - Pack of 4	RUBBER



WIDE RIM (LAMP WIDTH 29MM)		
9GD 959 517-007	Pack of 4	CLOSE CELL FOAM

MARKER AND SIGNAL

NARROW RIM (LAMP WIDTH 26MM)		
9GD 959 155-107	Single	RUBBER

WIDE RIM (LAMP WIDTH 33MM)		
9GD 959 155-507	Pack of 10	CLOSE CELL FOAM

Strip Lamp Gaskets

Gaskets for narrow and wide rim strip lamps.



P/N 9GD 959 155-107



P/N 9GD 959 155-507

SPARE PLASTIC CAPS		
9HD 959 182-027	Pack of 20	■ RED
9HD 959 182-017	Pack of 20	■ AMBER
9HD 959 182-037	Pack of 20	■ BLACK
9HD 959 182-007	Pack of 20	■ CLEAR

To suit narrow and wide rim LED courtesy, marker and strip lamps.

Plastic Screw Caps

Two screw caps required per lamp.



P/N 9HD 959 182-007

110MM ROUND LED - PLASTIC SCREW CAPS		
9.2365.10	Pack of 20	■ RED
9.2165.10	Pack of 20	■ AMBER
9.2105CLR.10	Pack of 20	■ CLEAR

110mm Round LED - Plastic Screw Caps

Three screw caps required per lamp.



P/N 9.2365.10

110MM ROUND - LENS GASKET	
9.2397.40	9GD 905 850-001

110mm Round - Lens Gasket



P/N 9.2397.40



LED Safety DayLights™

Safety DayLights™ are signal lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.





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HELLA LED SAFETY DAYLIGHTS™

BE SAFE BE SEEN

Failure to see another road user in time (or at all) is a contributing factor in over 50% of all daytime accidents. For daytime intersection accidents this increases to as much as 80%.

Source: The Safety Effects of Daytime Running Lights, SWOV, 1997

Why Install HELLA Safety DayLights™?

You might ask yourself "can't I just switch on my headlamps?", Since the use of dipped beam headlamps during daylight hours has long been promoted as a Road Safety Initiative around the country.

Dipped beam headlamps are designed to effectively light up the road in front of the vehicle during darkness, whilst causing as little glare as possible to oncoming traffic.



Hence during daytime, dipped beam headlamps 'waste' most of their light directed to the road in front of the vehicle but provide very little as a signal to other road users in bright daylight. Using your Dipped Beam Headlamps during daylight hours has only a marginal added safety effect.

Safety DayLights™ on the other hand are designed to significantly enhance the conspicuity of your vehicle during daylight hours because precision optics direct all the light towards the other road users.

HELLA LED Safety DayLights™

Safety DayLights™ are forward facing signal lamps that significantly enhance the visibility of your vehicle during daylight hours to prevent vehicle crashes by 'accidental oversight'.

As road users we have all experienced the 'fright second' of a near miss by being overlooked by another car, van or truck.

Equally frightening is almost not noticing another vehicle approaching due to an inconspicuous vehicle colour, the low sun casting harsh shadows or sun strike.

Any single one of these 'fright seconds' has the potential to end in a tragic outcome and become a number in the road toll statistics.

Safety DayLights™ are a "never forget" safety enhancement. They automatically switch ON when the ignition is switched ON and automatically switch OFF when the headlamps are turned ON in order not to dazzle other road users at night.



Headlamps Off

Low Beam Headlamps

HELLA LED Safety DayLights™

Low Beam Headlamps



Designed to light the road at night without causing glare to other road users.

HELLA LED Safety DayLights™



Designed to increase the visibility (conspicuity) of your vehicle during daylight hours.



SETTING A STANDARD IN ROAD SAFETY

Australia's extensive road network is used by millions every day. Statistically the risk of being harmed in a road accident is one of the highest severe injury risks we face every day.

Data from the Bureau of Infrastructure, Transport and Regional Economics [BITRE] shows that thousands of crashes occur each year resulting in injury and fatalities. In 2011 there were 1291 fatalities on our roads as well as \$9.61 Billion traffic related costs.

The economic cost of road accidents to Australia has been calculated at some 17.85 Billion Dollars in 2006*, the majority occurring during daylight hours when visibility and conspicuity should be at its peak.

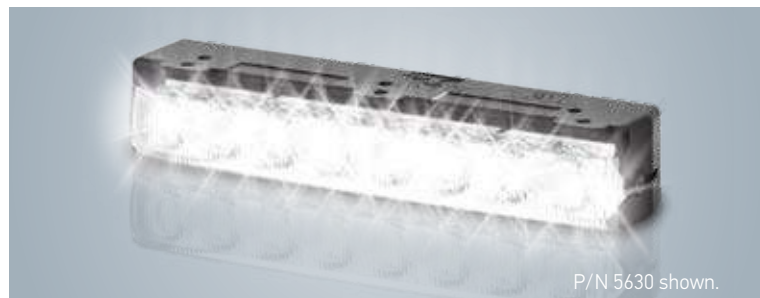
*Source: Bureau of Infrastructure, Transport and Regional Economics [BITRE] Road crash costs in Australia 2006, Report 118, Canberra, November.

Worldwide Studies

The effectiveness of Safety DayLights™ (DRLs) has been studied extensively worldwide and their mandatory use being adopted into legislation in most European countries.

Benefits of LED Safety DayLights™

- Low power consumption.
- Advanced UV resistant material.
- 5 year warranty.
- Approved for use in Australia.



SAFETY DAYLIGHTS™ SMART CONTROLLER DESIGNED TO SIMPLIFY INSTALLATION

HELLA's Safety DayLights™ Smart Controller is designed to simplify the installation of Safety DayLights™ by eliminating the need to connect the lamp, or changeover relay, to ignition terminal 15. The vehicle's ignition feed is typically used as a signal to turn Safety DayLights™ ON. Correctly identifying terminal 15 (Ignition) in the engine bay can be a difficult task on some vehicles, requiring specialised tools and in some cases the only solution is to route the wiring back through the fire wall into the vehicle cabin. This procedure can greatly increase the time and cost it takes to install Safety DayLights™. It can also be a daunting experience for the DIY-er not familiar with the electronic complexity of the modern vehicle.

The Safety DayLights™ Smart Controller reduces the installation complexity as it is directly connected to the positive terminal of the battery where it will sense that the vehicle engine has been activated.

The Safety DayLights™ Smart Controller uses advanced electronics that constantly monitor the voltage of the battery and other tell tale signs that the engine has been started. It will automatically switch the Safety DayLights™ ON. It will deactivate the Safety DayLights™ when the headlamps are turned ON or the engine is turned OFF (after a small delay).

MINIMISING ENVIRONMENTAL IMPACT

HELLA LED Safety DayLights™ are a durable, environmentally-friendly investment into road safety.

Energy Efficiency

HELLA LED Safety DayLights™ use less than 5 watts per pair, equating to 95% less energy than the Dipped Headlamps of your vehicle.

Q: Why is a safer light using so much less energy?

A: LED Safety DayLights™ are designed to direct light at other road users and not onto the road in front of the vehicle as Dipped Beam Headlamps do.

Q: Will this save me petrol compared to using my headlamps?

A: Studies have shown that the average family car will save as much as 0.2 litres of petrol per 100km. For the entire Australian fleet this equates to a reduced environmental impact of over 500,000 tons per year of CO₂ emissions.

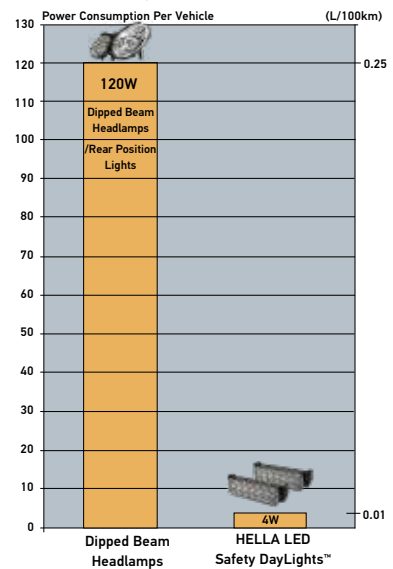
Q: What about my headlamp globes?

A: Using highly effective Safety DayLights™ instead of your Dipped Beam Headlamps, will of course also extend the life of your valuable headlamp globes.

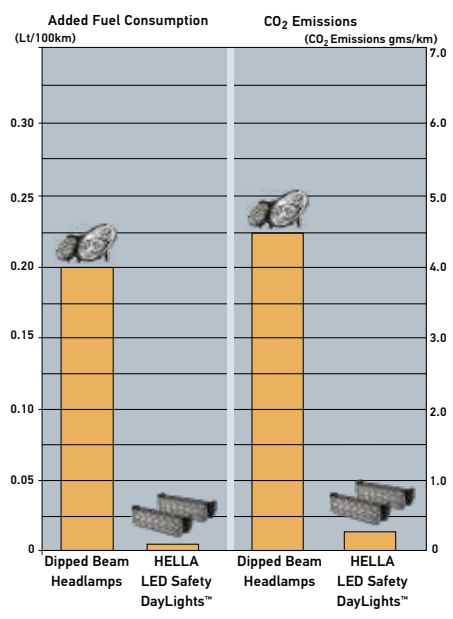


Dipped Headlamps Versus High Efficacy LED Safety DayLights™

Power Consumption



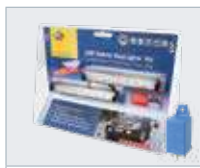
Power and Fuel Consumption and CO₂ Emissions



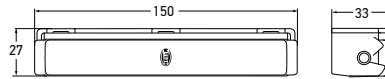
**LED Safety DayLights™ Kit
- Easy-Fit**

Forward Facing Signal Lamps, designed to be mounted on vehicles with flat fronts, or on motorbikes. The lamps are an Easy-Fit installation, usually requiring no extra parts. Once the wiring is complete and the bracket is fitted, the LED lamp easily clips into place and installation is complete.

SAFETY DAYLIGHTS™



P/N 5636BL
Includes Smart Relay



5636	2PT 980 970-801		12 VOLT
5636BL	2PT 980 970-802 – (Blister Pack)		
5636-24V	2PT 980 970-851		24 VOLT
Mounting	Suitable for horizontal mounting.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Spare Parts	1013	Single lamp 12V	
	1013-24V	Single lamp 24V	
Lens Material	High impact acrylic.		
Compliance	ADR 76/00	E24 5875	ECE R87/00
Kit Contents	5636/...-24V 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet		5636-BL 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

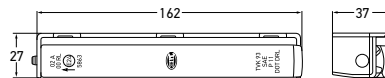
See page 106 for front position relay option.

LED Safety DayLights™ Kit - 15°

A lens angle of 15 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.

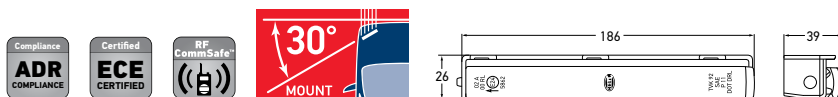


P/N 5630BL
Includes Smart Relay



5630	2PT 980 860-841		12 VOLT
5630BL	2PT 980 860-842 – (Blister Pack)		
5630-24V	2PT 980 860-871		24 VOLT
5630-24VBL	2PT 980 860-872 – (Blister Pack)		
Mounting	Suitable for horizontal mounting.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	High impact acrylic.		
Compliance	ADR 76/00	E24 5863	ECE R87/00
Kit Contents	5630/...-24V 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet		5630-BL/...-24VBL 2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

See page 106 for front position relay option.

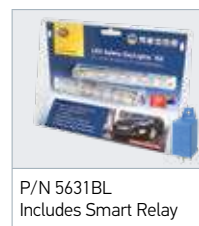


5631	2PT 980 850-841	12 VOLT
5631BL	2PT 980 850-842 – (Blister Pack)	
5631-24V	2PT 980 850-871	
Mounting	Suitable for horizontal mounting.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning).	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	High impact acrylic.	
Compliance	ADR 76/00	ECE R87/00
Kit Contents	5631/...-24V	5631-BL
	2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Changeover relay 1 x Instruction sheet	2 x LED Safety DayLights™ 2 x Mounting brackets 6 x Mounting screws 1 x Smart controller relay 1 x Terminal kit 1 x Instruction sheet

See page 106 for front position relay option.

LED Safety DayLights™ Kit - 30°

A lens angle of 30 degrees allows installation as close as possible to the corners of a modern motor vehicle. These lamps were designed to fit the curved bumpers of modern vehicles to give the look of Original Equipment fitment. The lamps have extremely low power consumption at 2W per lamp and high-impact acrylic lenses to protect against impact damage.



P/N 5631BL
Includes Smart Relay

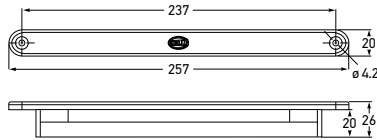
SAFETY DAYLIGHTS™



**BE SAFE
BE SEEN**
HELLA LED
SAFETY DAYLIGHTS™

**LED Safety DayLights™ Kit
- Recess Mount**

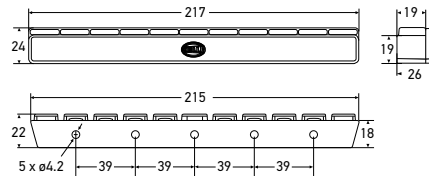
Recess Mount Strip Lamp, flush mounted for a professional finish. Features low power consumption, reverse polarity protection, and a durable Grilamid® lens to protect against impact damage.



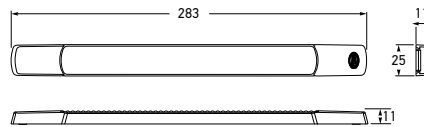
5618	2PT 980 680-811		12 VOLT
5618-24V	2PT 980 680-852		24 VOLT
Mounting	Two hole recess mount. Suitable for horizontal mounting.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of multi-core cable.		
Spare Parts	1005 1005-24V	Single lamp 12V Single lamp 24V	
Lens Material	Nylon (PA12)		
Compliance	ADR 76/00	0001	ECE R87/00
Kit Contents	2 x LED Safety DayLights™ 4 x Screw caps and mounting screws 1 x Changeover relay 1 x Instruction sheet		

**LED Safety DayLights™
- Compact Mount**

Strip Lamp which clips into a separate mounting bracket for ease of installation. This lamp is ECE certified and is supplied with a mounting bracket and screws. The lens is made of durable Grilamid® to protect against impact damage, and the lamps feature reverse polarity protection.



1008	2PT 980 680-111		12 VOLT
1008-24V	2PT 980 680-611		24 VOLT
Mounting	Suitable for horizontal mounting.		
Power Consumption	2W		
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 76/00	0001	ECE R87/00



5619	2PT 980 880-801 – (Horizontal mount)	12 VOLT
5619-24V	2PT 980 880-851 – (Horizontal mount)	24 VOLT
5619V	2PT 980 880-901 – (Vertical mount)	12 VOLT
5619V-24V	2PT 980 880-951 – (Vertical mount)	24 VOLT

Power Consumption 3W

Protection Reverse polarity protection.
IP 6K7 (Protection against dust and temporary water immersion)
IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)

Cable Length Pre-wired with 2.5m of sheathed multi-core cable.

Spare Parts	1009	Single lamp 12V (Horizontal mount)
	1009BL	Single lamp 12V (Horizontal mount) Blister pack
	1009-24V	Single lamp 24V (Horizontal mount)
	1009-24VBL	Single lamp 24V (Horizontal mount) Blister pack
	1009V	Single lamp 12V (Vertical mount)
	1009V-24V	Single lamp 24V (Vertical mount)
	9.2652.09	White screw caps (Pack of 4)
9.1009.09	Charcoal screw caps (Pack of 4)	
9.1009.10	Chrome plated screw caps (Pack of 4)	

Lens Material Nylon (PA12)

Compliance ADR 76/00 E24 5869 ECE R87/00

Kit Contents 2 x LED Safety DayLights™
4 x Mounting screws
4 x Screw caps
1 x Changeover relay
1 x Instruction sheet

See page 106 for front position relay option.

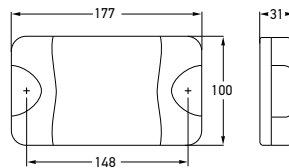
**LED Safety DayLights™ Kit
- Surface Mount**

Surface Mount LED Safety DayLights™ designed to fit flat-fronted vehicles. Comes either as a single lamp, or as a kit. The lamp is ADR compliant and features a Grilamid® lens to protect against impact damage.



Ultra slim height of only 11mm. Lamp shown active.

SAFETY DAYLIGHTS™



1003	2PT 980 608-502
Mounting	Two hole recess mount with mounting bushes supplied. Suitable for horizontal mounting.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	3W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Nylon (PA12)
Compliance	ADR 76/00
See page 86 for DuraLED accessories.	

DuraLED Safety DayLights™

LED DuraLED Safety DayLights™ for trucks, commercial vehicles and buses.



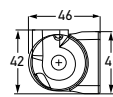
LED Safety DayLights™ Kit - Rectangular

Rectangular Shaped Ultra Light Lamps offering maximum visibility in road traffic during the day. Features lightweight housing, universal mounting bracket and ultra-durable Grilamid® nylon lens for extreme impact, UV and chemical resistance. Easy wiring requiring only 3 connections, earth (-), ignition (+) and position lamps (+).

SAFETY DAYLIGHTS™



P/N 5617
Wiring harness and super seal connectors.



5617	2PT 980 670-831		
5617OE	2PT 980 670-812		
Mounting	Suitable for horizontal mounting.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	<2W each		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Spare Part	1004	Single lamp (with 0.5m of multi-core cable)	
Cable Length	5617	Pre-wired with 0.5m of multi-core cable.	
	5617-OE	Pre-wired with 2.5m of multi-core cable.	
Lens Material	Nylon (PA12)		
Compliance	ADR 76/00	0002	ECE R87/00
Kit Contents	P/N 5617 kit contains: 2 x LED Safety DayLights™ 1 x Professional wiring harness and super seal connectors 4 x Mounting brackets and fasteners 1 x Instruction sheet		P/N 5617OE kit contains: 2 x LED Safety DayLights™ with 2.5m sheathed multi-core cable. 4 x Mounting brackets and fasteners 1 x Instruction sheet



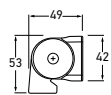
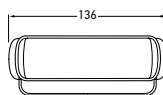
P/N 5617



P/N 5617OE

LED Safety DayLights™ Kit -Stainless Steel Bracket

Ultra-light, LED Safety DayLights™ equipped with 12 high-performance LEDs offering maximum visibility in road traffic during the day. Features lightweight housing, sturdy stainless steel mounting bracket and ultra-durable Grilamid® nylon lens for extreme impact, UV, chemical and stress resistance. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



5617OESS	2PT 980 670-872		
Mounting	Upright or pendant. Stainless steel mounting brackets included.		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.		
Power Consumption	<2W each		
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of multi-core cable.		
Lens Material	Nylon (PA12)		
Compliance	ADR 76/00	0002	ECE R87/00
Kit Contents	2 x LED Safety DayLights™ with 2.5m sheathed multi-core cable. 2 x Universal stainless steel mounting brackets 1 x Instruction sheet		

LED SAFETY DAYLIGHTS™

Compliance
ADR
COMPLIANCE

Certified
ECE
CERTIFIED

Lens Material
GMD

RF
CommSafe

Mounted perpendicular to the vehicle axis

1006	2PT 980 690-502	12 VOLT
1007-24V	2PT 980 690-401 – (Includes Front Position Lamp)	24 VOLT
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.	
Power Consumption	Safety DayLights™: 4W Front position: 1W (P/N 1007-24V only)	
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	ADR 49/00 (1007-24V) ADR 76/00 E24 5854 ECE R87/00 ECE R7/02 (1007-24V)	

See page 89 for mounting accessories.

83mm Round LED Safety DayLights™

This LED lamp features an integrated Safety DayLight and front position function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight.



83MM LAMP FUNCTIONS



LED Safety DayLights™ Front position (P/N 1007-24V only)

SAFETY DAYLIGHTS™

Compliance
ADR
COMPLIANCE

Certified
ECE
CERTIFIED

Lens Material
GMD

RF
CommSafe

Mounted perpendicular to the vehicle axis

2108-GMD	2BE 980 691-111	12 VOLT												
2108-GMD24V	2BE 980 690-111	24 VOLT												
Mounting	Flush mount. Single bolt 1/4" stainless UNC thread. Nut and washer supplied.													
Power Consumption	<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">P/N 2108-GMD</td> <td style="text-align: center;">P/N 2108-GMD24V</td> </tr> <tr> <td>Safety DayLights™:</td> <td style="text-align: center;">3W</td> <td style="text-align: center;">4W</td> </tr> <tr> <td>Front position:</td> <td style="text-align: center;">1W</td> <td style="text-align: center;">1W</td> </tr> <tr> <td>Front indicator:</td> <td style="text-align: center;">4W</td> <td style="text-align: center;">4W</td> </tr> </table>			P/N 2108-GMD	P/N 2108-GMD24V	Safety DayLights™:	3W	4W	Front position:	1W	1W	Front indicator:	4W	4W
	P/N 2108-GMD	P/N 2108-GMD24V												
Safety DayLights™:	3W	4W												
Front position:	1W	1W												
Front indicator:	4W	4W												
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)													
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.													
Lens Material	Nylon (PA12)													
Compliance	ADR 6/00: Cat 1 ADR 49/00 ADR 76/00 E24 5854 ECE R6/01 ECE R7/02 ECE R87/00													

See page 89 for mounting accessories.

83mm Round LED Safety DayLights™/Front Position/ Front Direction Indicator Lamp

This LED Combination Lamp features an integrated Safety DayLight, front position and front direction indicator function. The lamp features a traditional round lens that illuminates with a distinctive ring of white LEDs when used as a Safety DayLight. This lamp eliminates the need for installation of multiple lamps.



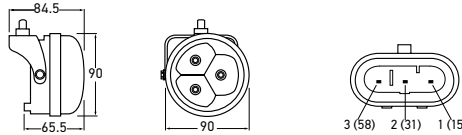
83MM LAMP FUNCTIONS



LED Safety DayLights™ Front position Front direction indicator

LED Safety DayLights™ Kit - Round

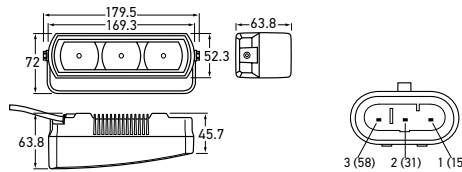
Universal Round Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metallised free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



5607	2PT 009 599-802		
Mounting	Upright or Pendant. Universal mounting bracket included.		
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	12V	<5W (single lamp)	
	24V	<11W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection.		
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable.		
Spare Parts	5607LH	Round LED Safety DayLight LH (Left hand side)	
	5607RH	Round LED Safety DayLight RH (Right hand side)	
Lens Material	Polycarbonate		
Compliance	(E) 2372	ECE R87/00	ADR 76/00
Kit Contents	2 x LED Safety DayLights™ 1 x Pre-assembled professional harness 1 x Waterproof AMP plug		

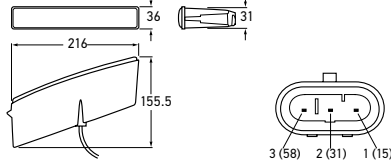
LED Safety DayLights™ Kit - Rectangular

Universal Rectangular Safety DayLights™ equipped with 3 x high-performance LEDs and high-sheen metallised free-form (FF) reflectors for a superior signal pattern and maximum visibility to oncoming traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off.



5608	2PT 009 496-802		
Mounting	Upright or Pendant. Universal mounting bracket included.		
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.		
Power Consumption	12V	<5W (single lamp)	
	24V	<11W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection.		
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable.		
Spare Part	5608LRH	Rectangular LED Safety DayLight	
Lens Material	Polycarbonate		
Compliance	(E) 2344	ECE R87/00	ADR 76/00
Kit Contents	2 x LED Safety DayLights™ 1 x Pre-assembled professional harness 1 x Waterproof AMP plug		

LED SAFETY DAYLIGHTS™



5610	2PT 010 043-802	12 VOLT
5610LH-24V	2PT 010 043-032 – (Left Hand Side)	24 VOLT
5610RH-24V	2PT 010 043-042 – (Right Hand Side)	
Mounting	Flush or Screw Mount (side retaining springs and screws included)	
Power Consumption	7W (single lamp)	
Protection	Reverse polarity and transient spike circuit protection.	
Cable Length	Pre-wired with 0.45m of sheathed multi-core cable.	
Spare Parts	5610LH LEDayLine Safety DayLight – LH (Left hand side) 12V DC 5610RH LEDayLine Safety DayLight – RH (Right hand side) 12V DC	
Lens Material	Acrylic lens	
Compliance	E 2578 ECE R87/00 ADR 76/00	
Kit Contents	2 x LEDayLine Safety DayLights™ 1 x Pre-assembled professional wiring harness 1 x Relay 1 x Waterproof AMP super seal plug All parts required for installation	

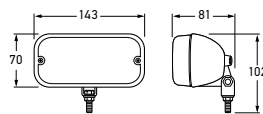
LEDayLine Safety DayLights™

Universal LED Safety DayLight equipped with five high-performance LEDs and individual computer-calculated, faceted reflectors and clear, pattern-free acrylic lens. Features distinct rod-shaped matrix design for innovative front-end styling and provides optimum light distribution for maximum visibility in road traffic during the day. Automatically switches on when the engine is started and switches off when the main headlamps are activated or the engine is turned off. Also functions as a position light with dimmed light power (automatic switch over).



SAFETY DAYLIGHTS™

INCANDESCENT DAYTIME RUNNING LAMPS



1000	2PT 964 296-072
Mounting	Upright or Pendant
Voltage	Globes to be ordered separately
Globes to suit	12V R1221 24V R2421
Compliance	E 8701 ECE R87/00 ADR 76/00

Designed to increase visibility to oncoming traffic during the day.



Safety DayLights™ Smart Controller

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

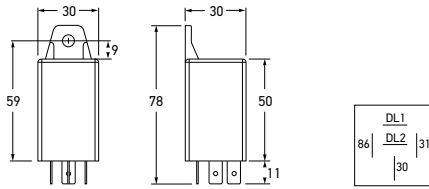
The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

*Advanced version with vibration monitor for installation in vehicles with fuel saving alternators.

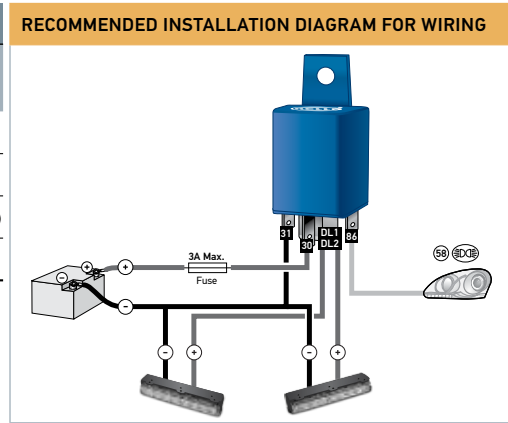


P/N 3091 (Standard)



3090	5DF 980 818-011 – (Advanced*)	
3090BULK	5DF 980 818-017 – (Advanced*)	Pack of 20
3091	5DF 980 818-001 – (Standard)	
3091BULK	5DF 980 818-007 – (Standard)	Pack of 20
Voltage	Multivolt, suitable for 12 and 24 volt systems.	
Maximum Continuous Load	20W	
To Suit	HELLA LED Safety DayLights™ range.	
Features a Safety DayLights™ OFF delay of approximately 10 seconds.		

WIRING SPECIFICATIONS	
Terminal Number	Connect to
30	Battery (+)
31	Earth return (-)
86	Front position or headlamps (+)
DL1 & DL2	Safety DayLights™ (+)

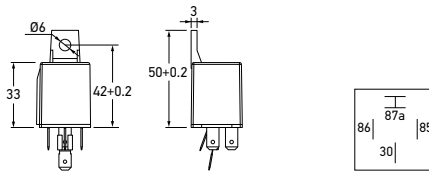


Dual Function Safety DayLights™ Controller

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

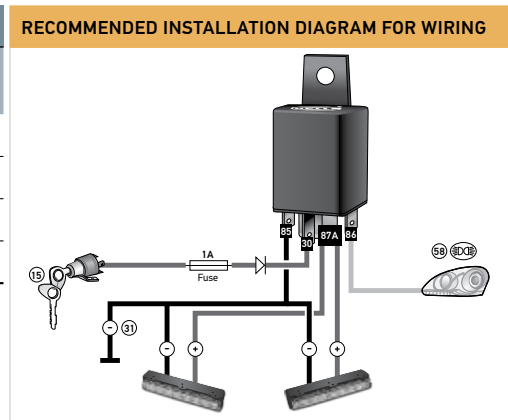
The dual function controller reduces the current to the Safety DayLights™ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

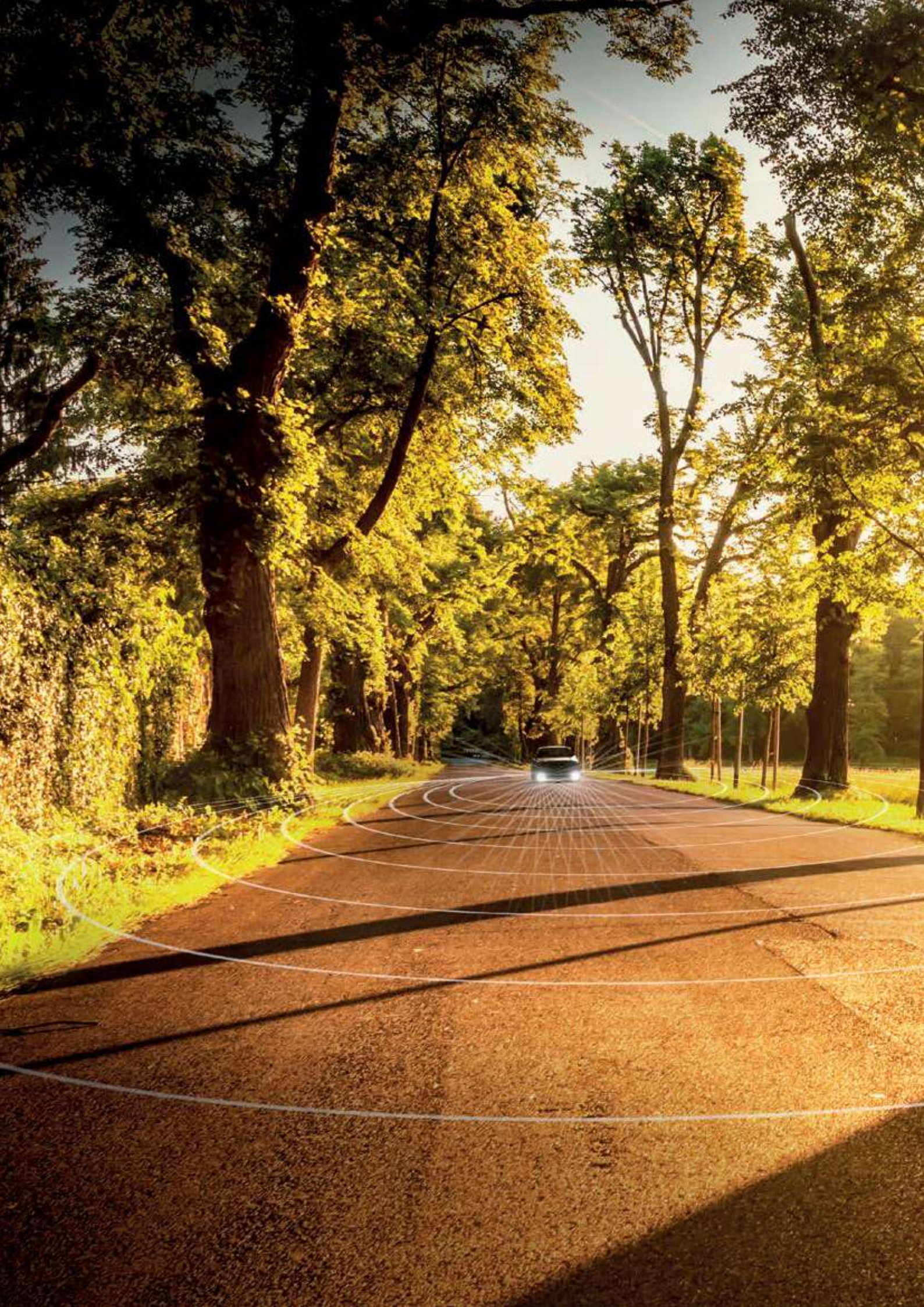
* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.



9.5630.03	2DF 980 816-041	12 VOLT
9.5636.03	2DF 980 816-061	
9.5630.04	2DF 980 816-541	24 VOLT
9.5636.04	2DF 980 816-561	
To Suit	P/N 9.5630.03 P/N 9.5636.03 P/N 9.5630.04 P/N 9.5636.04	P/Ns 1009, 5619, 5630, 5631 P/N 5636 P/Ns 1009-24V, 5619-24V, 5630-24V, 5631-24V P/N 5636-24V

WIRING SPECIFICATIONS	
Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	Safety DayLights™ (+)







Headlamps and Inserts

HELLA has manufactured headlamp systems for more than 100 years. The durability and reliability of HELLA products has made HELLA a world leader in headlamp technology.





Contents

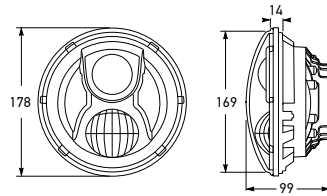
Headlamps and Inserts

4 ½" Conventional Sealed Beams	122
Semi Sealed Headlamps	
5 ¾" Round.....	115-117
Semi Sealed Headlamps and Housings	
7" Round.....	113-114
Semi Sealed Headlamps and Housings	
Rectangular	118-119
Universal Headlamps.....	120-121

**7" Round LED Headlamps
- High/Low Beam and Daytime
Running Lamp/Front Position**

The high/low beam function of the 7" LED headlamp range offers 1150/750 lumen light output and a wide spread creating a superior light distribution increasing peripheral vision. With the added feature of Daytime Running Lamps and Front Position Lamps the 1058LED is a one-stop-shop for all headlight needs, increasing visibility and therefore safety on the road.

Combining the latest state of the art LED technology, multi-voltage 12/24V DC circuit design and precision optics, the retrofit lamps provide outstanding visibility, safety, and durability – making them one of the most advanced 7" LED headlamps available. The tough die-cast aluminum housing is IP 67 sealed against water and dust ingress with a UV resistant, hard coated polycarbonate lens making the HELLA's 7" Round LED Headlamp range perfect for use on and off-road.



1056LED	1L6 958 307-001
Mounting	Retrofit 178 Ø (7") headlamps
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	High Beam: 35W Low Beam: 25W
Light Output	High Beam: 1150 lumen Low Beam: 750 lumen
Protection	Reverse polarity protection. IP 67 (Protection against dust and high pressure water jets)
Connection	3 PIN "H4" type male plug (100mm cable)
Housing Material	Die-cast Aluminum
Lens Material	Coated polycarbonate
Compliance	ECE R112/01 Ref. 12.5 (E11) 7581 ADR 46/00

HEADLAMPS & INSERTS

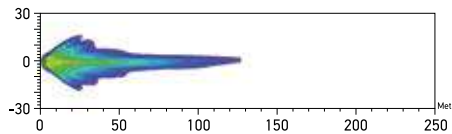


P/N 1056LED



P/N 1058LED

1056LED/1058LED Low Beam distance. (m). Recorded with single lamp.



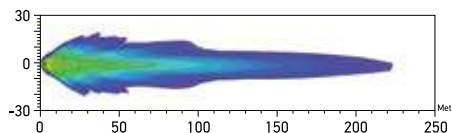
1058LED	1L6 958 307-011 - With Daytime Running Lamp/Front Position
Power Consumption	High Beam: 35W Low Beam: 25W Daytime Running Lamp: 15W (1058LED version only) Front Position: 2W (1058LED version only)
Cable Length	P/N 1058LED has 2 additional 100mm pre-wired cables with male blade terminals for front position and daytime running lamp functions.
Compliance	ECE R112/01 Ref. 12.5 (E11) 6081 ECE R87/00 ECE R7/02 ADR 46/00, ADR 49/00, ADR 76/00
Other specifications as per P/N 1056LED	

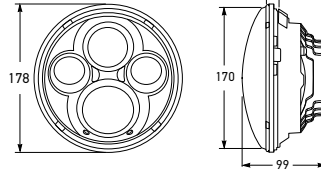
P/N 1058LED LAMP FUNCTIONS



Daytime Running Lamp Front position


1056LED/1058LED High Beam distance. (m). Recorded with single lamp.





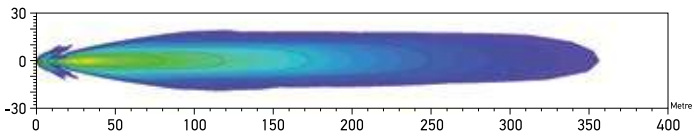
7" Round LED Headlamp High Beam

The 1358LED lamp features a high beam function with a massive 1440 lumen light output for only 60W. Combining the latest state of the art LED technology, multi-voltage 12/24V DC circuit design and precision optics, the retrofit lamps provide outstanding visibility, safety, and durability – making them one of the most advanced 7" LED headlamps available. The tough die-cast aluminum housing is IP67 sealed against water and dust ingress with a UV resistant, hard coated polycarbonate lens making the HELLA's 7" Round LED Headlamp range perfect for use on and off-road.

1358LED	1L6 958 307-021
Mounting	Retrofit 178 Ø (7") headlamps
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	60W
Light Output	1440 lumen
Operating Temperature	-40°C to 65°C
Protection	Reverse polarity protection. IP 67 (Protection against dust and high pressure water jets)
Cable Length	2 x 100mm cables with male blade terminals.
Housing Material	Die-cast Aluminum
Lens Material	Coated polycarbonate
Compliance	ⓔ11 7501 ECE R112/01 Ref. 30 ADR 46/00 



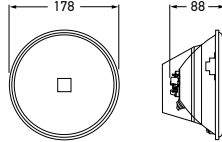
1358LED High Beam distance. (m). Recorded with single lamp.



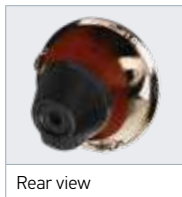
HEADLAMPS & INSERTS

**178mm H4 Halogen
High/Low Beam Insert**

Semi-sealed Headlamp with sealing cap.



1056	1L6 002 395-843		
Voltage	Globe to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
Compliance	ADR 46/00		
Where front position lamp is required, use P/N 1058.			



Rear view

**178mm H4 Halogen
High/Low Beam Insert**

Semi-sealed Headlamp with front position lamp globe holder and sealing boot.



1058	1L6 002 395-132		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view

**178mm H4 Halogen High/Low
Beam Insert - Hardened Glass**

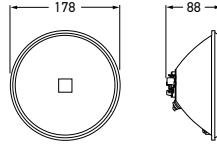
High Performance Halogen Headlamp Insert fitted with extremely robust hardened glass lens providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24 volt and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.



1058HD	1L6 002 395-261		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view



178mm H3 Halogen Driving Lamp Insert

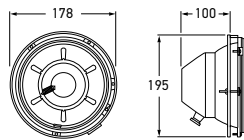
Suitable for use as High Beam Headlamp in most 178mm round headlamp carriers (eg. P/N 1016).



9.1358.01	9DS 113 469-001	
Voltage	Globe to be ordered separately.	
Globes to Suit	12V 24V	YC1255, YC12100 YC2470, YC24100
Compliance	ADR 46/00	
3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes. Globes to be ordered separately.		

HEADLAMPS & INSERTS

178mm Headlamp Housing



Headlamp Housing and Chrome Rim for halogen or conventional sealed beams and inserts 178mm in diameter. Fully sealed steel cowl, complete with adjusting mechanism for vertical and horizontal alignment, sealing gasket, stainless steel retaining rim and 3 pin wiring harness with separate park lamp connection. Ideal for truck, bus or body builders. Suits Mercedes, Kenworth, Mack, White etc. Outer chrome rim (P/N 1017) to suit Headlamp Housing P/N 1016.

1016	1V6 905 152-001	HEADLAMP HOUSING
1017	9AB 912 420-511	CHROME RIM



P/N 1016
Headlamp Housing

P/N 1017
Chrome Rim

**178mm H4 Halogen
High/Low Beam Conversion Kit**

High/low Beam Headlamp Inserts with front position lamp aperture and sealing boot. Suitable for single headlamp systems.



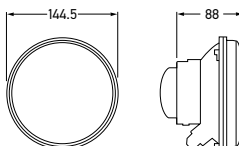
5604	1L6 002 395-844		12 VOLT
Power Consumption	High Beam:	60W	
	Low Beam:	55W	
Globes to Suit	12V:	XD1260/55	
	24V:	XD2475/70	
Spare Part	1056	Headlamp insert	
Compliance	ADR 46/00		
Kit Contents	2 x Headlamp Inserts 2 x Sealing Boots 2 x 12V Globes		
Front position globe holder not included. Where front position lamp is required, use P/N 1058.			

**178mm H4 100W Halogen
High/Low Beam Conversion Kit**

High/low Beam Headlamp Inserts with front position lamp aperture and sealing boot. Suitable for single headlamp systems.



5604/100	1L6 002 395-845		12 VOLT
Power Consumption	High Beam:	100W	
	Low Beam:	55W	
Globes to Suit	12V:	XD12100/55	
	24V:	XD24100/90	
Spare Part	1056	Headlamp Insert	
Kit Contents	2 x Headlamp Inserts 2 x Sealing Boots 2 x 12V Globes		
Front position globe holder not included. Where front position lamp is required, use P/N 1058.			



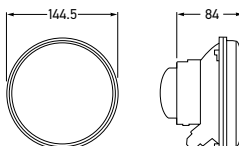
**146mm H1 Halogen
High Beam Insert**

Semi-sealed Headlamp, for high beam section of dual headlamp systems with sealing boot.

1053	1K3 114 155-001		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255	24V C2470
Compliance	ADR 46/00		
Earth terminal is a 'Post' (bullet) type connection.			



HEADLAMPS & INSERTS



**146mm H1 Halogen
Low Beam Insert**

Low Beam Insert with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.

1054	1M3 114 178-001		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255	24V C2470
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



**146mm H1 Halogen
Long Range Driving Insert**

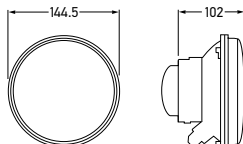
Semi-sealed Headlamp, for high beam section of dual headlamp systems with sealing boot.

1040	1K3 002 425-191		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255, C12100	24V C2470, C24100



146mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.



1055	1L3 002 850-062		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



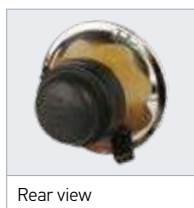
Rear view

146mm H4 Halogen High/Low Beam Insert - Hardened Glass

High Performance Halogen Headlamp Insert fitted with extremely robust hardened glass lens, providing maximum resistance when subjected to high operating temperatures and thermal shock. Ideal for 24 volt and high wattage globe applications. Supplied complete with sealing boot and front position lamp globe holder assembly.



1055HD	1L3 002 850-211		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view

146mm H1 Halogen High Beam Conversion Kit

High Beam Headlamp Inserts suitable for dual headlamp systems.



5605	1K3 114 155-002	12 VOLT
Power Consumption	55W	
Globe to Suit	12V: 24V:	C1255 C2470
Spare Part	1053	Headlamp insert
Compliance	ADR 46/00	
Kit Contents	2 x Headlamp Inserts 2 x 12V Globes and Installation Equipment	





5606	1M3 114 178-002	12 VOLT
Power Consumption	55W	
Globes to Suit	Headlamp:	12V C1255
	Front position:	24V C2470 HL124 HL244
Spare Part	1054	Headlamp Insert
Compliance	ADR 46/00	ADR 49/00
Kit Contents	2 x Headlamp Inserts 2 x Sealing Boots (High temperature) 2 x 12V Globes and Installation Equipment	
Insert must be installed using the supplied high-temperature wiring and sealing cap. All loom terminations must be made outside the sealing cap and the use of non-standard wiring may result in discolouration, overheating and potential safety hazard.		

146mm H1 Halogen Low Beam Conversion Kit

Low Beam Headlamp Inserts with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.



HEADLAMPS & INSERTS



5612/100	1K3 002 425-192	12 VOLT
Power Consumption	100W	
Globe to Suit	12V:	C12100
	24V:	C24100
Spare Part	1040	Headlamp insert
Kit Contents	2 x Headlamp Inserts 2 x 12V Globes and Installation Equipment	

146mm 100W H1 Halogen Long Range Beam Conversion Kit



5611	1L3 002 850-063	12 VOLT
Power Consumption	High Beam:	60W
	Low Beam:	55W
Globe to Suit	Headlamp:	12V XD1260/55
	Front position:	24V XD2475/70 HL124 HL244
Spare Part	1055	Headlamp Insert
Compliance	ADR 46/00	ADR 49/00
Kit Contents	2 x Headlamp Inserts with Globe Holder 2 x Sealing Boots 4 x 12V Globes	

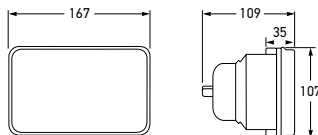
146mm H4 Halogen High/Low Conversion Beam Kit

High/low Beam Headlamp Inserts with front position lamp globe holder and sealing boot. Suitable for dual headlamp systems.



165 x 100mm H1 Halogen High Beam Insert

Semi-sealed Headlamp with sealing cap.



1041	1KB 003 177-061		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V C1255	24V C2470
Compliance	ADR 46/00		



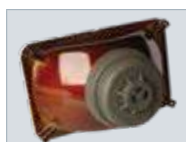
Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

Semi-sealed Headlamp with sealing boot and wiring adaptor.



1042	1LB 003 177-301		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
Compliance	ADR 46/00		



Rear view

165 x 100mm H4 Halogen High/Low Beam Insert

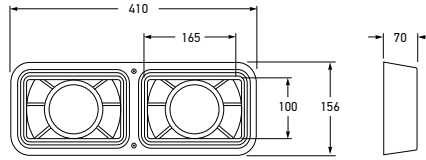
Semi-sealed Headlamp and front position lamp with sealing boot.



1044	1LB 003 177-511		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	



Rear view



Twin Rectangular Headlamp Housing

For most 165 x 100mm Rectangular Headlamp Units. Chrome plated outer rim. Complete with adjusting mechanisms for vertical/horizontal alignment and wiring loom. Ideal for truck, bus or body builders.

1025	1VB 950 951-001	
Spare Part	9.1025.07	Chrome Plated Outer Rim



HEADLAMPS & INSERTS

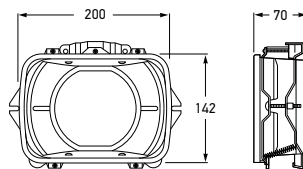


1043	1LE 003 427-041		
Voltage	Globes to be ordered separately.		
Globes to Suit	Headlamp:	12V XD1260/55	24V XD2475/70
	Front position:	HL124	HL244
Compliance	ADR 46/00	ADR 49/00	

200 x 142mm H4 Halogen High/Low Beam Insert

Semi-sealed headlamp with front position lamp globe holder.





Rectangular Headlamp Housing

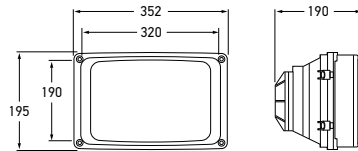
Suits 200 x 142mm Rectangular Headlamp Units (P/N 1043). Ideal for truck, bus or body builders.

1024	1VE 905 153-001	
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H4 Halogen High/Low Beam Headlamp Assembly

Lamp unit lens dimensions 352 x 195mm, complete with mounting frame and adjusting mechanisms for vertical and horizontal alignment. Fully enclosed housing with removable rear sealing cap for globe replacement access. Ideal for truck, bus or body builders.

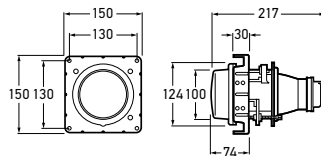


1027	1LG 003 434-181		
Mounting	Simple four point mounting.		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	24V	
	Headlamp:	XD1260/55	XD2475/70
	Front position:	HL124	HL244
Spare Parts	9.1027.01	Clear Lens	
	9.1027.02	Reflector	
	9.1027.03	Lens Gasket	
	9.1027.04	Sealing Cap	
Compliance	ADR 46/00	ADR 49/00	

HEADLAMPS & INSERTS

DE H1 Low Beam Headlamp Assembly

Compact DE H1 Low Beam Headlamp Assembly with 100mm light aperture. Supplied with protective rubber sealing cap.

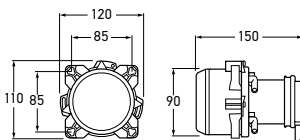


1028	1BL 007 834-001		
Voltage	Globes to be ordered separately.		
Globes to Suit	12V	C1255	
	24V	C2470	
Spare Part	9.1028.07	Rubber Protective Cap	
Compliance	ADR 46/00		



P/N 9.1028.07

HEADLAMPS AND INSERTS



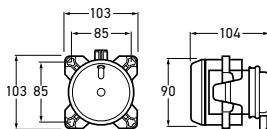
DE H7 Low Beam Headlamp Assembly

Compact DE H7 Low Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.

1029-12V	1BL 008 193-001	12 VOLT
Globes to Suit	12V 24V	CA1255 (Included) CA2470
Spare Parts	9.1029.09	Supporting Frame
Compliance	ADR 46/00	



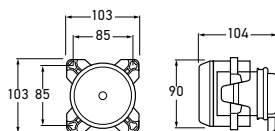
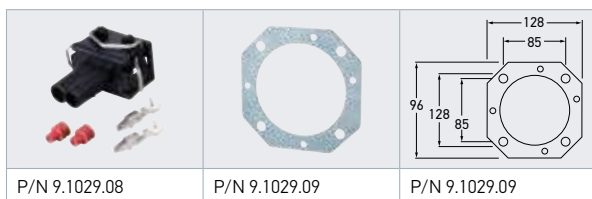
HEADLAMPS & INSERTS



FF H7 Main Beam Headlamp Assembly with Position Lamp

Compact FF H7 Main (High) Beam Headlamp Assembly with 90mm light aperture and inbuilt position lamp. Supplied with protective rubber sealing cap and position lamp connector set.

1030-12V	1K0 008 191-001	12 VOLT	
1030-24V	1K0 008 191-021	24 VOLT	
Globes to Suit	Headlamp: Front position:	12V CA1255 HL124	24V CA2470 (Included) HL244 (Included)
Spare Parts	9.1029.08 9.1029.09	Position lamp connector set Supporting Frame	
Compliance	ADR 46/00	ADR 49/00	



FF H7 Main Beam Headlamp Assembly

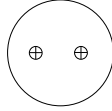
Compact FF H7 Main Beam Headlamp Assembly with 90mm light aperture. Supplied with protective rubber sealing cap.

1031-24V	1K0 008 191-041	24 VOLT
Globes to Suit	12V 24V	CA1255 CA2470 (Included)
Spare Parts	9.1029.09	Supporting Frame
Compliance	ADR 46/00	



114mm Spot Lamp/Long Range Beam

Spot Lamp Beam to suit hand held spot lamp
P/N 1520.



2 screw terminals



1089	1M4 905 905-001
Trade Part No.	4509
Voltage	12V
Power Consumption	100W

HEADLAMPS & INSERTS

Sealed Beam Adaptor

Sealed Beam Adaptor with front position lamp
globe holder and snap-lock cable connection.



4972	8JA 001 912-002		
Globes to Suit	6V HL64	12V HL124	24V HL244

ENHANCE YOUR NIGHT VISION WITH LIGHTING FROM HELLA RELIABILITY WITH PERFORMANCE



LUMINATOR LED SERIES DRIVING LAMPS

Multivolt 9-33V DC

HELLA's most innovative, advanced driving lamp, setting the highest standards for professional and heavy-duty driving. With three high power LEDs, a triple high-boost free-form (FF) reflector, hard-coated polycarbonate lens, inbuilt LED position light, and housed in a weatherproof die-cast aluminium housing with bracket. Emits an intense, consistent light similar to daylight – up to 540m at 1 Lux.

Never change bulbs again. Stays in alignment even on corrugated roads. Driving light uses a mere 30W, position light 1W.



PREDATOR HIGH BOOST IX XGD DRIVING LAMPS

12V DC, Inbuilt Ballast

Next generation Predator Series Xenon Gas Discharge Driving Lamp suitable for heavy-duty applications. Features an innovative design, modern clear-glass lens, high-boost free-form (FF) reflector and in-built ballast for fast and easy installation.

Weatherproof die-cast zinc housing and bracket. Integrated ballast, 35W D1S (XN4001) globe included (42W total).

Upright mounting. Ø 220 mm.



RALLYE FF 4000 COMPACT IX XGD DRIVING LAMPS

12V DC, Inbuilt Ballast

New generation Rallye FF 4000 Compact iX Series Xenon Gas Discharge Driving Lamp suitable for heavy-duty applications. Features an innovative compact design, modern clear-glass lens, high-boost free-form (FF) reflector and in-built electronic ballast for fast and easy installation.

Weatherproof die-cast zinc housing and bracket. Integrated ballast, 35W D1S (XN4001) globe included (42W total).

Upright mounting. Ø 170 mm.

HELLA Australia Pty Ltd
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www.hella.com.au



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Technology with Vision





Fog and Driving Lamps

Whether in the urban jungle, the early morning mist of a country road, Autumn fog or off-road, superior lighting performance significantly enhances your driving safety.



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FOG AND DRIVING LAMPS - INNOVATIVE LIGHTING TECHNOLOGY

HELLA Fog and Driving Lamps provide superior performance - both in distance and evenness of illumination, for enhanced On and Off-road safety.

For decades, professional drivers have chosen the superior performance of HELLA driving lights to increase the range and distance of their forward vision at night and in adverse weather conditions.

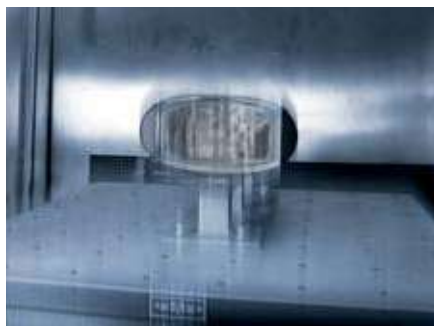
Driving for extended hours at night can be tiring. The use of good forward lighting has long been recognised as an effective approach to reduce driver fatigue and loss of concentration leading to dangerous situations for road users.

HELLA offers driving and fog lamps that suit even the most demanding applications, engineered to Original Equipment Manufacturer (OEM) standards and trusted by millions of motorists around the world.

The superior performance of HELLA auxiliary driving lamps is confirmed time and again in independent tests in major international automotive magazines.

HELLA Quality Control

Before a new HELLA design is passed for production and sale, it has to pass stringent endurance tests. To ensure HELLA driving lights are fit for their purpose, tests are conducted with simulated real-life environments and driving conditions.



The following criteria must be passed before a new driving light is considered for production:

→ **Reliable performance in adverse conditions and extreme terrains.**

HELLA driving lamps are vigorously tested through mud and water spray tests simulating off-road and cross country driving.

→ **Harsh vibration and shock resistant.**

Vibration testing is performed with random as well as fixed frequencies, known to stress materials. This simulates unforgiving road conditions such as cobblestones and potholes.

→ **Optimal performance in freezing cold and fierce heat.**

The driving lamps are subjected to extreme temperature variations between -40 °C to +80 °C during testing to ensure they are capable in all weather extremes.

→ **Watertight even in extreme weather.**

The driving lamps are subjected to water spray at pressures of 4 bar to simulate driving through torrential rain.

Tips For Safer Driving

- Ensure you always get a professional alignment after you change a headlamp, driving lamp, or globe.
- Always use a globe of the recommended wattage in your driving lamps. Using a higher wattage globe than recommended will only minimally increase the light performance but will substantially increase the generated heat. This may cause damage to lamp components.
- Lights converted to Xenon discharge systems that are not designed for this technology is not recommended and can be illegal in certain on-road applications.
- If you are 'blowing' globes regularly, and/or your lights are not as bright as they used to be, try fitting a relay. A relay will both protect your switch and electrical system, as well as assist in applying the design voltage to the globe.



ELIVER The Online Comparison Tool

Eliver is a unique comparison tool which helps you find the best possible fog or driving lamp for your application.

With Eliver, you can easily compare our best lamps online and get a realistic idea of performance.

Get the right lights for your everyday work.

hella.com/eliver



SAFER DRIVING WITH HELLA'S ADVANCED TECHNOLOGY



“The use of good forward lighting has long been recognised as an effective approach to reduce driver fatigue”

Lights with Parabolic Reflector Systems

These lights are designed with a reflector in the mathematically defined shape of a paraboloid. The reflector captures the luminous flux emitted by the globe and projects this forward as an almost parallel light beam.

The specific light distribution is produced by optical lenses and prisms in the profiled cover lens which precisely directs the light to the area to be illuminated. Good optic design produces an even illumination where as a spotty appearance is the result of poorly designed optics.

Efficient headlamps with parabolic reflector systems require a large reflector in order to capture the maximum luminous flux from the globe.

Lights with Free-Form (FF) Reflector Technology

Lights incorporating Free-Form (FF) technology are based on complex computer simulations. Over 50,000 (individual surfaces of the reflector are calculated and formed to precisely reflect the light to the road in front of the vehicle. The outer cover lens contains minimal optic elements.

A well designed headlight, based on Free-Form (FF) technology, produces an evenly lit area in front of the vehicle which significantly contributes to safer driving.

Micro DE

The functional principle of a DE (Di axial Ellipsoid) lamp is similar to that of a slide projector. An ellipsoid Free-Form (FF) reflector directs the light to a focused glass lens which bundles and projects it onto the road. A shield positioned between the reflector and the lens provide a very sharp cut-off resulting in a concentrated light beam with defined edges ensuring a smooth light distribution with very little stray light. DE technology allows smaller dimensions with a higher luminance compared to a parabolic lamp.

Pencil Beam

The pencil beam driving light is designed for maximum long-range illumination, providing improved visibility of objects and traffic situations at great distance. This beam type is recommended for off-road vehicles where objects at a far distance must be recognised early to give the driver time to decide on a course of action.

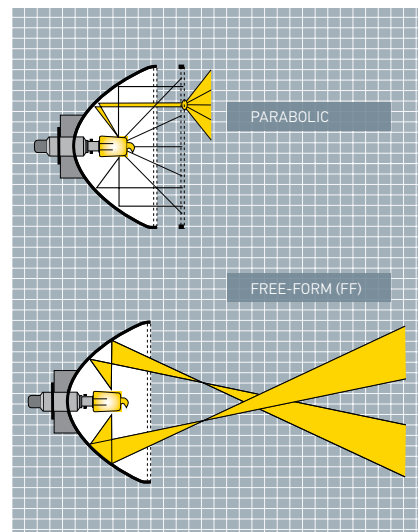
Spread Beam

The spread beam driving light provides effective illumination of both the area immediately in front of the vehicle and some distance ahead. This beam type is particularly suitable for road vehicles (e.g. trucks and buses) where fatigue-free driving is more important than recognising objects at a far distance.

HELLA Fog Lamps

Fog, rain or snow can reflect the light of standard driving lights into the driver's vision creating a dangerous glare which makes it difficult to recognise hidden hazards.

HELLA Fog Lamps are equipped with specially designed reflectors, which evenly illuminate the width of the road, providing you with a wide path of light for clearer visibility in close range to the vehicle. Particularly suitable for any vehicle driving through humid or moist areas where fog, rain or snow is common.



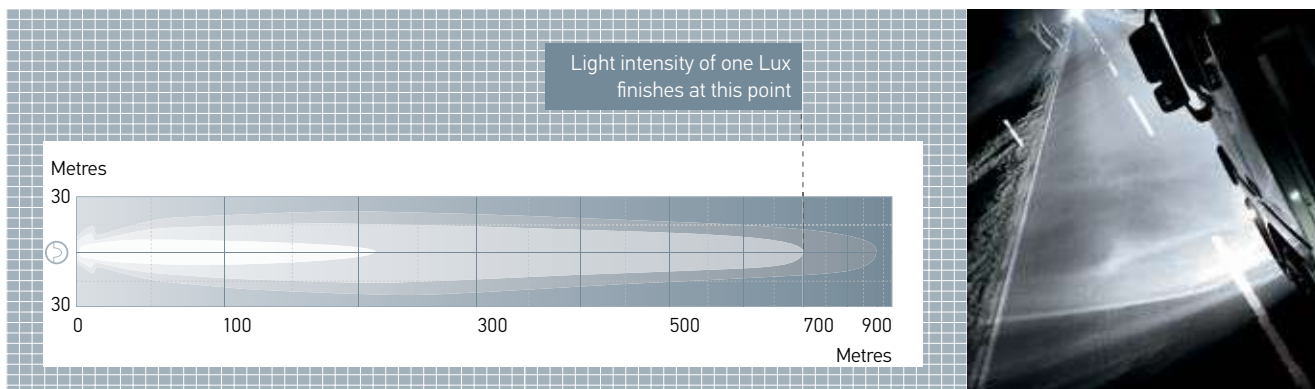
Lighting differences of the Parabolic and Free-Form (FF) lamps

MEASURING DISTANCE IN LIGHT

Isolux charts represent the beam pattern and the distance illuminated on a flat road surface using a single lamp.

The colour shades represent the distance in metres from the lamp. The dark blue shade indicates an illumination level of one Lux (320 metres in the shown diagram).

One Lux represents the intensity of the light of a full moon (under clear atmospheric conditions) or just sufficient light by which to read a newspaper.

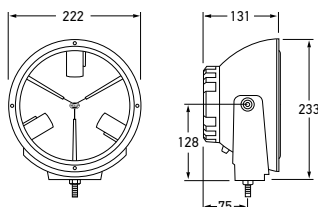


**Luminator LED
Driving Lamp 9-34V DC**

Innovative LED Driving Lamp equipped with 3 x high-power LEDs, impact resistant hard-coated PC lens, triple high-boost free-form (FF) reflector and in-built LED position light. Weatherproof die-cast aluminium housing and bracket. Suitable for heavy-duty applications. Key features include: first auxiliary driving lamp utilising LED light sources, intense and consistent illumination similar to daylight, hard-coated PC lens, Multivolt 9-34V DC, robust construction, attractive design and individual styling, innovative in-built LED position light.

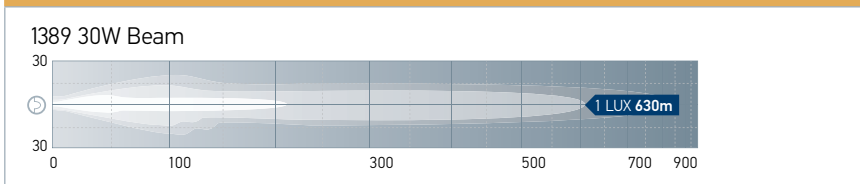


Front view showing position lamp



1389LED	1F8 011 002-001 - 12/24V DC - Ref. 50	SPREAD BEAM
Mounting	Weatherproof die-cast zinc mounting bracket for upright or pendant mounting (by inverting the bracket)	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 34 volts	
Power Consumption	Driving lamp: 30W Position lamp: 1W	
Weight	2.8kg	
Lead Length	80 centimetres	
Light Source	3 x High-powered LEDs	
Protection	IP 5K9K (Protection against dust and high-pressure water jets). Not suitable for submersion	
Note	Not intended for complete submersion	
Compliance	E1 3967 Ref. 50	
Spare Parts	9.1389LED.01 Driving lamp lens, reflector and LED light source.	

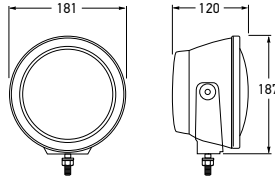
LED Luminator Compact Spread Beam distance. Recorded with single lamp. Distance in metres.



Accessories



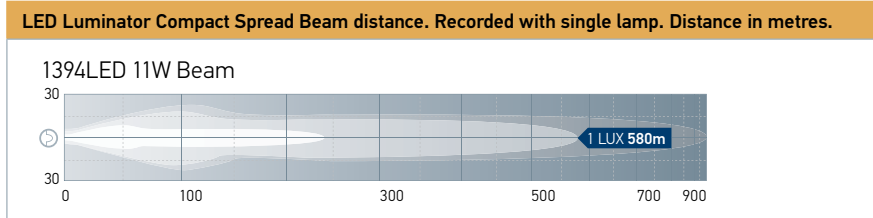
8125	8XS 147 945-001	PROTECTIVE COVER
8126	9HG 148 995-001	PROTECTIVE GRILLE
8141	9HD 905 445-001	CLEAR PROTECTIVE COVER



LED Luminator Compact Spread Beam Driving Lamp - 9-34V DC

Compact housing with powerful LED technology and hard coated PC lens. Suitable for off-road use, briefly immersible (up to 5 minutes fording at up to 0.5m in clear water). The heavy-duty version has a 2,500mm ventilation hose and T-piece to permit fording even in muddy water. Fitted with 3.0 m, two-pole cable (with bare ends).

1394LED	1F3 011 815-001 – Chrome Rim, 12/24V DC	ADR	SPREAD BEAM
1394LEDHD	1F3 011 815-031 – Black Heavy Duty 12/24V DC	ADR	SPREAD BEAM
Mounting	Upright or Pendant (by inverting the bracket)		
Voltage	Multivolt for optimum brightness at input voltages from 9 to 34 volts		
Power Consumption	Driving lamp: 11W		
Lead Length	30 centimetres		
Compliance	Ei 3738 Ref. 45		
Accessory	8163 Clear Protective Cover 1		
Spare Parts	9.1394LED.01 Lens with Chrome Rim (Suits 1394LED) 9.1394LEDHD.01 Lens with Black Rim (Suits 1394LEDHD)		



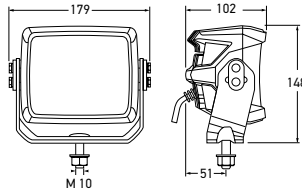
Chrome Rim - 1394LED



Heavy Duty Black Rim - 1394LEDHD

RokLUME 380 N LED Driving Lamp 12V DC / 24V DC

LED Driving Lamp with ECE Ref. 40
Extremely wide spot light for road illumination. Developed for the toughest operating conditions, with a mining pedigree for outstanding performance and durability. Light output (measured): up to **7500 lumen**, power requirement: 84 Watt, colour temperature: **5000 K**, 12V or 24V, reverse polarity protection, transient spike circuit protection, overvoltage protection, thermal management, IP 6K9K / IP 6K8 (high pressure cleaning resistant / submersible), ECE-R10 approved, RCM compliance, Heavy Duty stainless steel surrounding bracket, double insulated silicone supply cable with DT Connector, NanoSafe (non-stick and easy to clean surface coating), high impact hardcoated PC lens, Heavy Duty cable gland offers bend protection, premium aluminium housing for mining use, mounting standing / hanging, Nord-Lock washers, DT counterpart included.



Bracket STAINLESS STEEL	HD MOUNT	IP6K8	IP6K9K	Anti-Abuse	Thermal Management	Shock Rating 2000	Transient Spike Protection	Certified ECE CERTIFIED
Power Supply 24V	Power Supply 12V	Operating Temperature -40°C - +90°C	Electrical Compliance	In-Body Protected Protection	EMC	Housing CORROSION PROOF	RCM	Compliance ADR COMPLIANCE

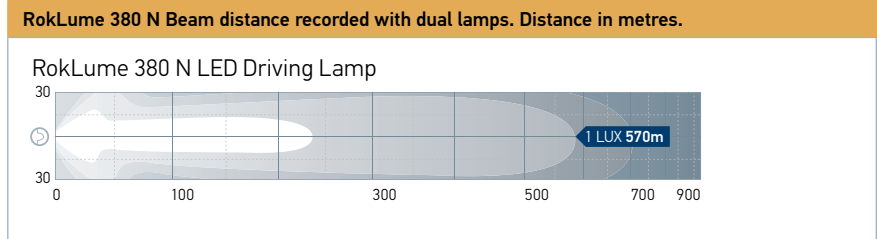
1FA 996 197-151	12V DC - Ref. 40	
1FA 996 197-181	24V DC - Ref. 40	
Mounting	Upright or Pendant. Heavy Duty bracket resists vibration.	
Voltage	12V DC / 24V DC	
Power Consumption	Max. 84W	
Max. Light Output	7500 lumen	
Colour Temp.	5000 K	
Protection	Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium	
Lens Material	Hard-coated PC	
Cable Length	300mm Cable with DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Compliance	CISPR 25 Class 5 Ref. 40	
Accessory	9.1551LED.06	DT Pigtail Loom, 2 metres



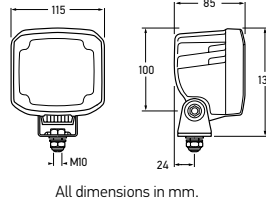
1FA 996 197-151 12V DC



1FA 996 197-181 24V DC



FOG AND DRIVING



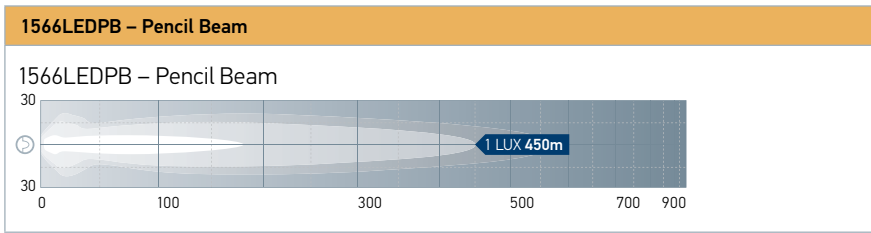
Ultra Beam LED Gen II Driving Lamp 9-33V DC

The popular Ultra Beam LED II series has now been expanded to include a Pencil Beam version. With **8 high power LEDs (6500 K)** the light output is a powerful **4000 lumens**. The light is distributed by a specially developed multi-faceted reflector and nylon (PA12) lens, thus ensuring homogeneous illumination. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 33 Volts DC.

1566LEDPB	1GA 995 606-021 Ultra Beam LED Gen II Driving Lamp 12/24V DC	PENCIL BEAM
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	56W	
Max. Light Output	4000 lumens	
Temperature Range	-40°C to +50°C	
Colour Temperature	6500 K	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Compliance		
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres

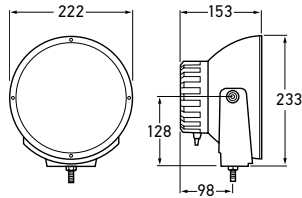


FOG AND DRIVING



Predator iX Series Driving Lamps

New Generation Predator Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy-duty applications.

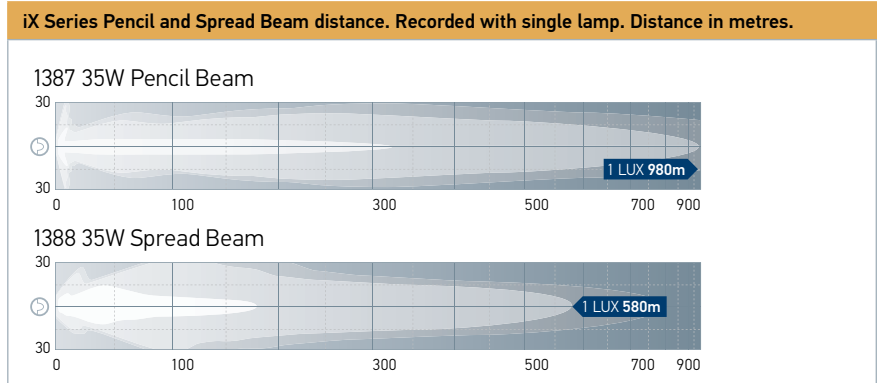


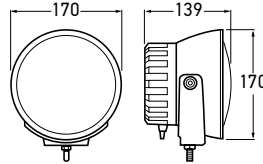
1387	1F8 007 560-711 High Boost iX Driving Lamp - 12V DC		PENCIL BEAM
1387-24	High Boost iX Driving Lamp - 24V DC		PENCIL BEAM
1388	1F8 007 560-701 High Boost iX Driving Lamp - 12V DC		SPREAD BEAM
1388-24V	1F8 007 560-741 High Boost iX Driving Lamp - 24V DC		SPREAD BEAM

Mounting	Upright or Pendant (by inverting the bracket)	
Voltage	Determined by ballast (12V DC integrated ballast, 24V DC integrated ballast)	
Power Consumption	35W globe (42W total)	
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)	
Lead Length	80 Centimetres	
Accessories	8125 Protective Cover ¹	
	8126 Protective Grille ²	
	8141 Clear protective Cover ³	
Spare Parts	9.1387.01 HB iX Pencil Beam Insert	
	9.1388.01 HB iX Spread Beam Insert	

FOG AND DRIVING

¹ 8125 Protective Cover	² 8126 Protective Grille	³ 8141 Clear Protective Cover





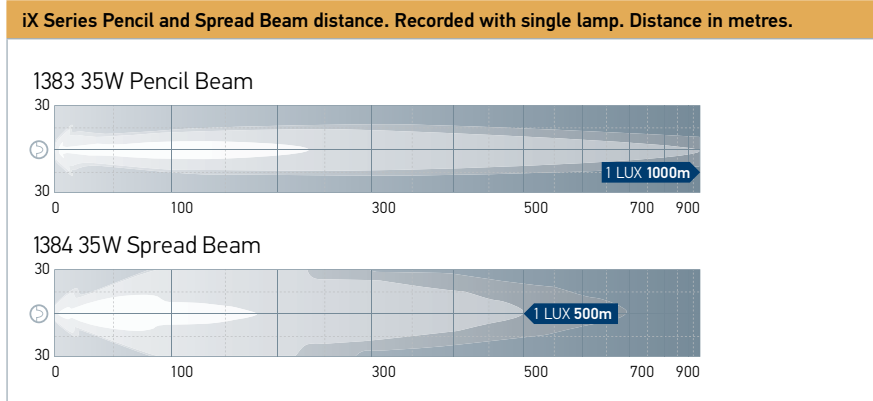
Raylle FF 4000 Compact iX Series

New Generation Rallye FF 4000 Compact iX Series Xenon Gas Discharge Driving Lamp featuring a new innovative design, modern clear glass lens, high-boost free-form (FF) reflector and in-built electronic ballast for fast and easy installation. Weatherproof die-cast zinc housing and bracket. Suitable for heavy-duty applications.

1383	1F3 009 094-301 – XGD Driving Lamp - 12V DC		PENCIL BEAM
1384	1F3 009 094-311 – XGD Driving Lamp - 12V DC		SPREAD BEAM
Mounting	Upright or Pendant (by inverting the bracket)		
Voltage	12V DC integrated ballast		
Power Consumption	35W globe (42W total)		
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)		
Accessory	8155 Clear Protective Cover		
Spare Parts	9.1381.01	HB Pencil Beam insert	
	9.1382.01	HB Spread Beam insert	

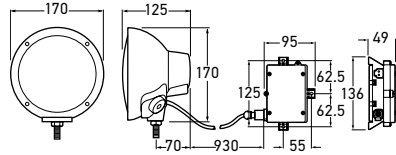


FOG AND DRIVING



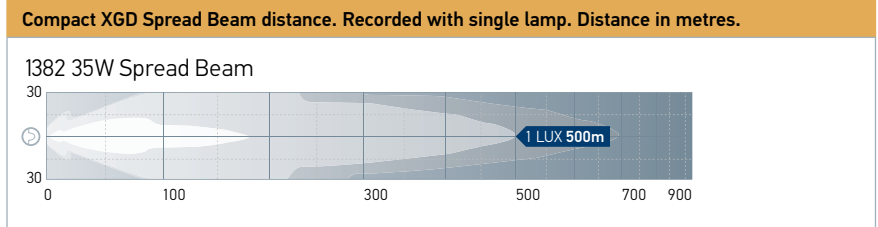
Raylle FF 4000 Compact Series

Compact Xenon Gas Discharge Driving Lamp featuring modern clear glass lens and newly developed high-boost free-form (FF) reflector. Weatherproof black metal housing. Suitable for heavy-duty applications.

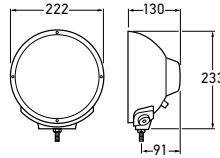


① 8155 Clear Protective Cover

1382	1F3 009 094-141 Compact XGD Driving Lamp - 12V DC		SPREAD BEAM
Mounting	Upright		
Voltage	12V DC integrated ballast		
Power Consumption	35W globe (42W total)		
Globe to Suit	D1S (XN4001) included (Suitable for 12V and 24V DC)		
Accessories	8155 Clear Protective Cover ①		
Spare Parts	9.1382.01 9.1319.03 9.1319.04 9.1365.06 9.1378.08	HB Spread Beam insert Ballast 12V DC Ballast 24V DC Bracket adjusting screw set M8 Bracket assembly and loom	



Rallye FF 4000 Series



1365	1F8 007 560-121 – 100W Driving Lamp - 12V		PENCIL BEAM
1366	1F8 007 560-101 – 100W Driving Lamp - 12V		SPREAD BEAM
1165	1F8 007 560-111 – Fog Lamp White Optic - 12V		WIDE CORNERING

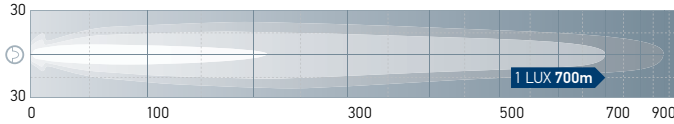
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)	
Spare Parts	9.1365.01	Pencil Beam insert
	9.1366.01	Spread Beam insert
	9.1165.01	Fog Beam insert
	9.1365.05	Male and Female Socket Connector Set
	9.1365.06	M8 Screw Set
	9.1365.07	Lens Retaining Rim
	9.1365.08	Bracket Assembly and Loom
Accessories	8125	Protective Cover ¹
	8126	Protective Grille ²
	8141	Clear Protective Cover ³



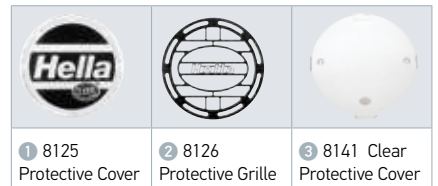
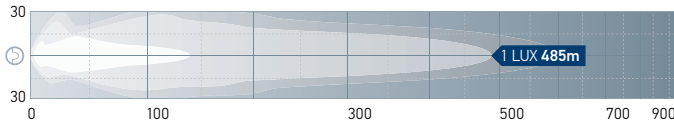
FOG AND DRIVING

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1365 100W Pencil Beam

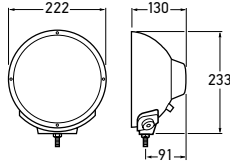


1366 100W Spread Beam



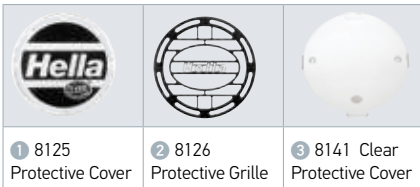
Rallye FF 4000 Series

High-performance Driving Lamps with weatherproof chrome-plated metal housing and bracket. Suitable for extreme off-road environments. Supplied with Allen Keys and Protective Cover, Part No. 8125.



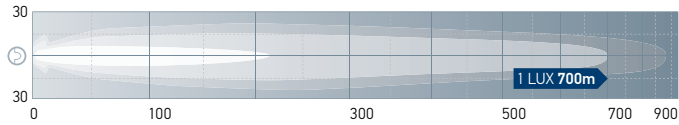
1365CHROME	1F8 007 560-141 – 100W Chrome Driving Lamp - 12V		PENCIL BEAM
1366CHROME	1F8 007 560-151 – 100W Chrome Driving Lamp - 12V		SPREAD BEAM
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)		
Spare Parts	9.1365.01 9.1366.01 9.1365.05 9.1365.06	Pencil Beam insert Spread Beam insert Male and Female Socket Connector Set M8 Screw Set	
Accessories	8125 8126 8141	Protective Cover ① Protective Grille ② Clear Protective Cover ③	

FOG AND DRIVING

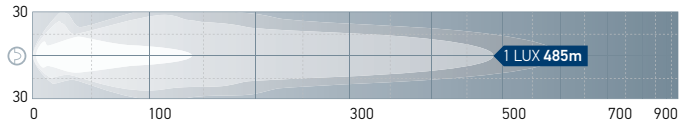


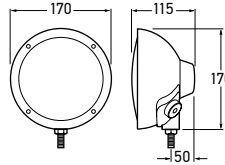
100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1365CHROME 100W Pencil Beam



1366CHROME 100W Spread Beam





Rallye FF 4000 Compact Series

Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof black metal housing and bracket. Suitable for heavy-duty applications.

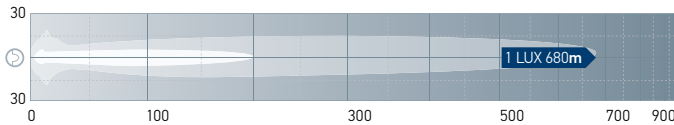
1380	1F3 009 094-101 – 100W Compact Driving Lamp - 12V	PENCIL BEAM
1378	1F3 009 094-021 – 100W Compact Driving Lamp - 12V	SPREAD BEAM
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.	
Accessory	8155 Clear Protective Cover ①	
Spare Parts	9.1380.01 Pencil Beam insert 9.1378.01 Spread Beam insert 9.1365.06 M8 Screw Set 9.1378.08 Bracket Assembly	



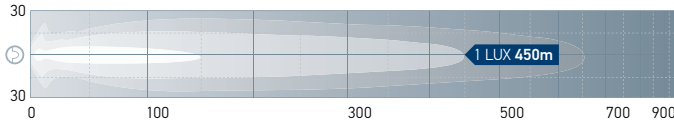
FOG AND DRIVING

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1380 100W Pencil Beam



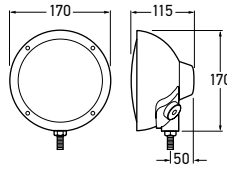
1378 100W Spread Beam



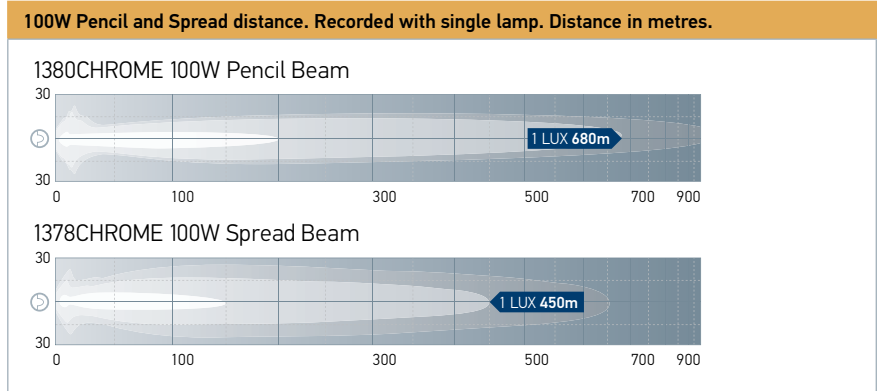
① 8155 Clear Protective Cover

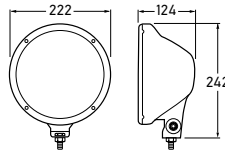
Rallye FF 4000 Compact Series

Compact Driving Lamps featuring modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof chrome-plated metal housing and bracket. Suitable for heavy-duty applications.



1380CHROME	1F3 009 094-111 100W Compact Chrome Driving Lamp 12V		PENCIL BEAM
1378CHROME	1F3 009 094-031 100W Compact Chrome Driving Lamp 12V		SPREAD BEAM
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.		
Accessories	8155 Clear Protective Cover ¹		
Spare Parts	9.1380.01 9.1378.01 9.1365.06	Pencil Beam insert Spread Beam insert M8 Screw Set	





Rallye 3003 Series

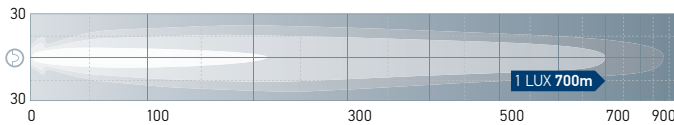
Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.



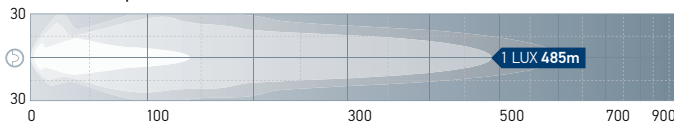
1390	1F8 009 797-221 100W Driving Lamp - Silver Rim 12V		PENCIL BEAM
1390CHROME	1F8 009 797-231 100W Driving Lamp - Chrome Rim 12V		PENCIL BEAM
1391	1F8 009 797-241 100W Driving Lamp - Silver Rim 12V		SPREAD BEAM
1391CHROME	1F8 009 797-251 100W Driving Lamp - Chrome Rim 12V		SPREAD BEAM
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100) 24V H1 (C24100)		
Accessory	8161 Clear Protective Cover		
Spare Parts	9.1365.01 Pencil Beam insert 9.1366.01 Spread Beam insert		

100W Pencil and Spread distance. Recorded with single lamp. Distance in metres.

1390 100W Pencil Beam



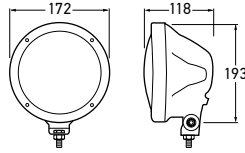
1391 100W Spread Beam



8161 Clear Protective Cover

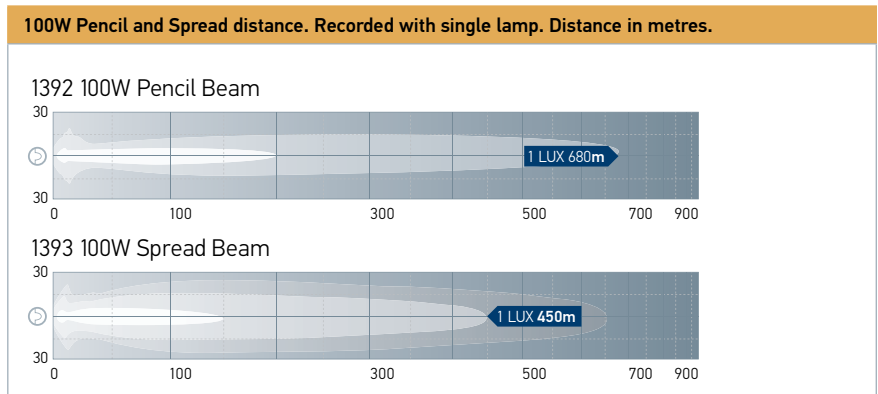
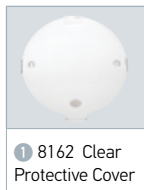
Rallye 3003 Compact Series

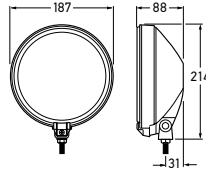
Compact Driving Lamps with modern clear glass lens, newly developed high-boost free-form (FF) reflector, weatherproof plastic housing and bracket.



1392	1F3 010 119-031 100W Driving Lamp - Silver Rim 12V		PENCIL BEAM
1392CHROME	1F3 010 119-131 100W Driving Lamp - Chrome Rim 12V		PENCIL BEAM
1393	1F3 010 119-011 100W Driving Lamp - Silver Rim 12V		SPREAD BEAM
1393CHROME	1F3 010 119-111 100W Driving Lamp - Chrome Rim 12V		SPREAD BEAM

Mounting	Upright
Voltage	12V (globe included)
Power Consumption	100W
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.
Accessory	8162 Clear Protective Cover
Spare Parts	9.1380.01 Pencil Beam insert 9.1378.01 Spread Beam insert





Raylle 1000 Series

High-performance Driving Lamps supplied with Protective Cover, Part No. 8118.

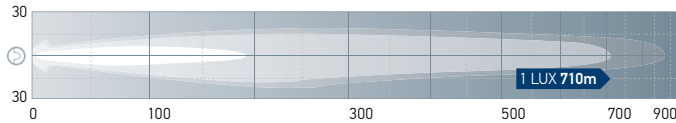
1362	1F7 004 700-171 – 100W Driving Lamp - 12V		PENCIL BEAM
1363	1F7 004 700-151 – 100W Driving Lamp - 12V		SPREAD BEAM
Mounting	Upright or Pendant. Supplied with two point fixing bracket (Part No. 8004).		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H2 (CD12100, CD1255) 24V H2 (CD24100, CD2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes.		
Accessories	8134 Clear Protective Cover ¹ 8004 Two Point Fixing Bracket Set ²		
Spare Parts	9.1362.01	Pencil Beam insert with globe holder	
	9.1363.01	Spread Beam insert	
	9.1362.08	Mounting Bracket assembly (without crossbolt, nut and washer)	
	9.1362.09	Body assembly	
	9.1363.08	Globe holder	



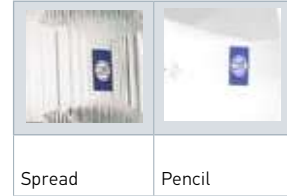
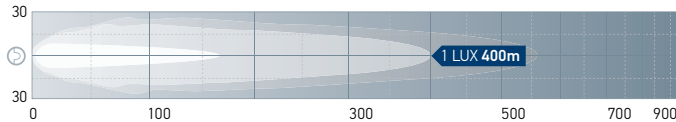
FOG AND DRIVING

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.

1362 100W Pencil Beam

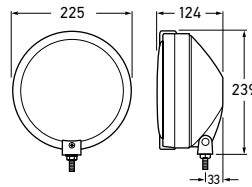


1363 100W Spread Beam

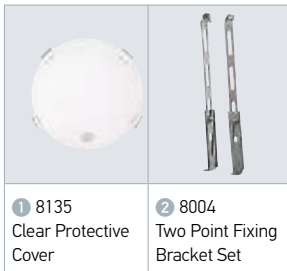
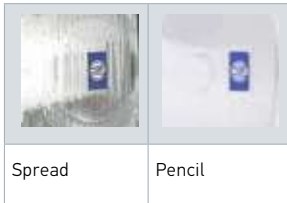


Raylle FF 2000 Series

High-performance Driving Lamps featuring weatherproof black metal housing. Supplied with Clear Protective Cover, Part No. 8135.

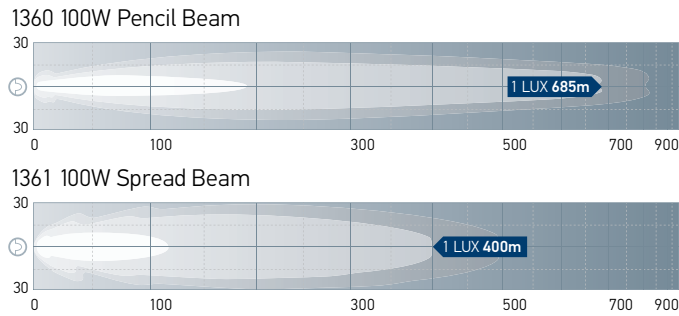


FOG AND DRIVING



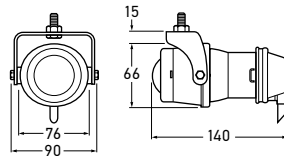
1360	1F8 905 091-001 – 100W Driving Lamp - 12V DC		PENCIL BEAM
1361	1F8 905 092-001 – 100W Driving Lamp - 12V DC		SPREAD BEAM
Mounting	Upright or Pendant. Supplied with two point fixing bracket (Part No. 8004)		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H1 (C12100, C1255) 24V H1 (C24100, C2470)		
Accessories	8135 Clear Protective Cover ¹ 8004 Two Point Fixing Bracket Set ²		
Spare Parts	9.1360.01 Pencil Beam insert 9.1361.01 Spread Beam insert 9.1160.02 Lens retaining spring 9.1360.06 Rim clipset 9.1360.07 Rim black 9.1360.08 Mounting Bracket assembly 9.1361.08 H2 globe holder (to suit old version)		

100W Pencil and Spread Beam distance. Recorded with single lamp. Distance in metres.



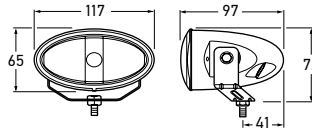
Micro De Series

Compact Fog Lamp featuring a focused glass lens, modern free-form (FF) reflector, durable and lightweight magnesium housing and bracket. Kit includes 2 x Micro DE Fog Lamps, brackets, cabling, relay, switch and connectors.



5647	1NL 008 090-821 – Fog Lamp Kit - White Optic - 12V	
Mounting	Upright or Pendant. Ideal for installations in/below front apron or front spoilers with limited mounting space. Standard mounting bracket and pre-assembled wiring harness included.	
Voltage	12V (globe included)	
Power Consumption	55W	
Globe to Suit	12V H3 (YC1255)	
Accessory	9.115.08 Adjustable bracket assembly for installation into vehicle bodywork (optional) ¹	

FOG AND DRIVING LAMPS



1322	1FA 008 283-011 – Driving Lamp - 12V	ADR
5613	1FA 008 283-811 – Driving Lamp - 12V	ADR
1122	1NA 008 283-001 – Fog Lamp - White Optic - 12V	ADR
5614	1NA 008 283-801 – Fog Lamp Kit- White Optic - 12V	ADR

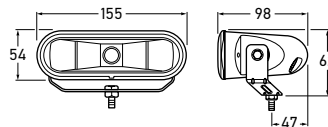
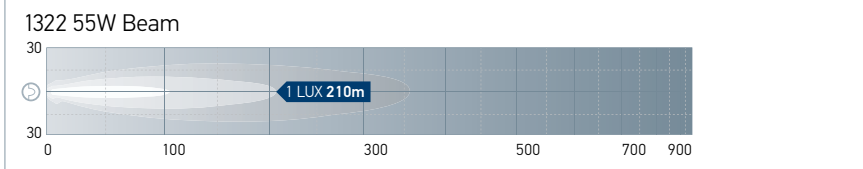
Mounting	Upright or Pendant.
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8147 Clear Protective Cover ①

Comet FF 50 Series

Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.



1322 - 55W Beam distance. Recorded with single lamp. Distance in metres.



1323	1FA 008 284-011 – Driving Lamp - 12V	ADR
5615	1FA 008 284-812 – Driving Lamp - 12V	ADR
1123	1NA 008 284-001 – Fog Lamp - White Optic - 12V	ADR
5616	1NA 008 284-802 – Fog Lamp Kit- White Optic - 12V	ADR

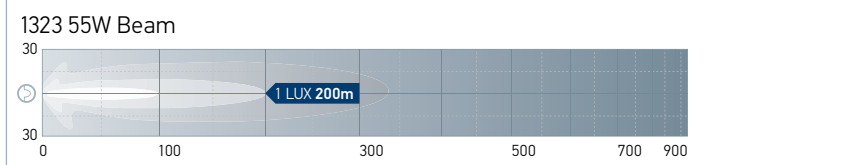
Mounting	Upright or Pendant.
Voltage	12V (globe included)
Power Consumption	55W
Globes to Suit	12V H7 (CA1255) 24V H7 (CA2470)
Accessory	8148 Clear Protective Cover ①

Comet FF 75 Series

Compact Driving and Fog Lamps featuring modern clear lens design and free-form (FF) reflector. Kit includes 2 x lamps and all parts required for installation.



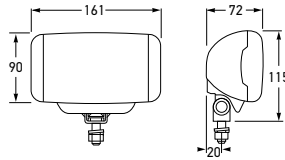
1323 - 55W Beam distance. Recorded with single lamp. Distance in metres.



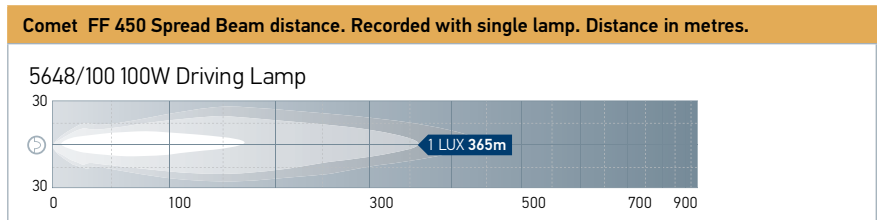
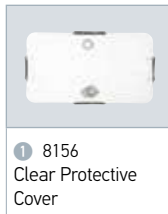
FOG AND DRIVING

Comet FF 450 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kits include 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.

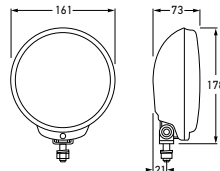


1324	1FB 010 951-001 – Driving Lamp - 12V	ADR	SPREAD BEAM
5648/100	1FB 010 951-601 – 100W Driving Lamp - 12V	ADR	SPREAD BEAM
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (YC1255) and 70W (YC2470) globes		
Compliance	E1 3221		
Spare Parts	9.1324.01 Driving lamp insert		
Accessory	8156 Clear Protective Cover 1		

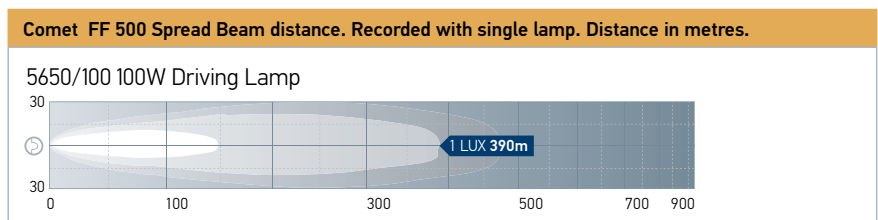


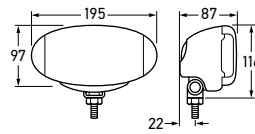
Comet FF 500 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kits include 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.



1325	1F6 010 952-001 – Driving Lamp - 12V	ADR	SPREAD BEAM
5650/100	1F6 010 952-601 – 100W Driving Lamp - 12V	ADR	SPREAD BEAM
Mounting	Upright		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Compliance	E1 3222		
Spare Parts	9.1325.01 Driving Lamp insert		
Accessory	8157 Clear Protective Cover 1		





1326	1FD 010 953-001 – Driving Lamp - 12V	ADR	SPREAD BEAM
5652/100	1FD 010 953-601 – 100W Driving Lamp - 12V	ADR	SPREAD BEAM
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Compliance	E 3223		
Spare Parts	9.1326.01 Driving Lamp insert		
Accessory	8158 Clear Protective Cover 1		

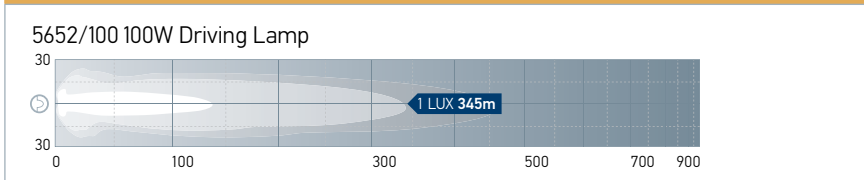
Comet FF 550 Series

Non-patterned glass lens with free-form (FF) reflector. Computer calculated light distribution for powerful light performance. Sturdy plastic housing. Kits include 2 x lamps, 2 x Clear Protective Covers, and all parts required for installation.



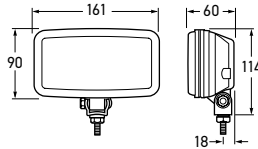
FOG AND DRIVING

Comet FF 550 Spread Beam distance. Recorded with single lamp. Distance in metres.



Comet 450 Series

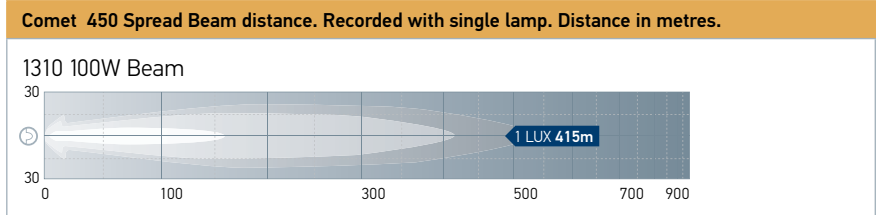
Supplied with Protective Cover, Part No. 8123. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.



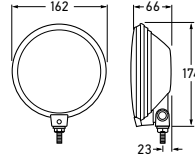
1310	1FB 005 860-033 – Driving Lamp - 12V	ADR	SPREAD BEAM
5646/100	1FB 005 860-032 – 100W Driving Lamp - 12V	ADR	SPREAD BEAM
1110	1NB 005 860-001 – Fog Lamp - White Optic - 12V	ADR	FOG BEAM
5645	1NB 005 860-002 – Fog Lamp Kit- White Optic - 12V	ADR	FOG BEAM

Mounting	Upright and Pendant		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving 12V H3 (YC12100, YC1255) Fog 12V H3 (YC1255)	24V H3 (YC24100, YC2470) 24V H3 (YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1310.01 9.1110.01 9.1308.08 9.1310.09	Driving Lamp insert with globe holder Fog Lamp insert with globe holder Mounting Bracket Assembly Body Assembly	
Accessories	8123 Protective Cover ① 8136 Clear Protective Cover ②		

FOG AND DRIVING



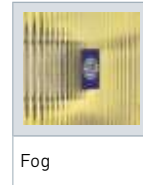
FOG AND DRIVING LAMPS



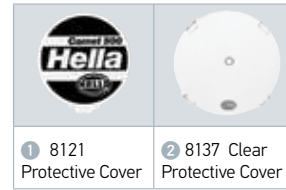
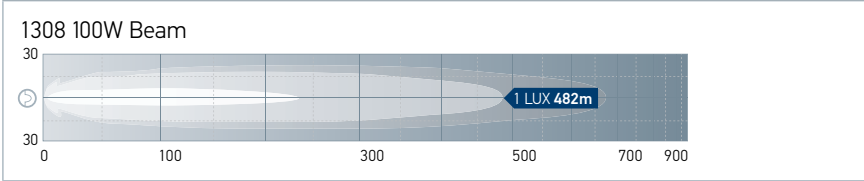
Comet 500 Series

Supplied with Protective Cover, Part No. 8121. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.

1308	1F4 005 750-301 – Driving Lamp - 12V	ADR	SPREAD BEAM
5642/100	1F4 005 750-111 – 100W Driving Lamp - 12V	ADR	SPREAD BEAM
1108	1N4 005 750-041 – Fog Lamp - Amber Optic - 12V	ADR	FOG BEAM
5641	1N4 005 750-042 – Fog Lamp Kit - Amber Optic - 12V	ADR	FOG BEAM
Mounting	Upright and Pendant		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving 12V H3 (YC1255) 24V H3 (YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)		
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1308.01 Driving Lamp insert 9.1308.08 Mounting Bracket Assembly 9.1308.09 Body Assembly		
Accessories	8121 Protective Cover ¹ 8137 Clear Protective Cover ²		



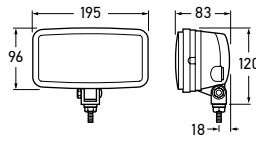
Comet 500 Spread Beam distance. Recorded with single lamp. Distance in metres.



FOG AND DRIVING

Comet 550 Series

Supplied with Protective Cover, Part No. 8122. Kit includes 2 x lamps, 2 x Protective Covers and all parts required for installation.



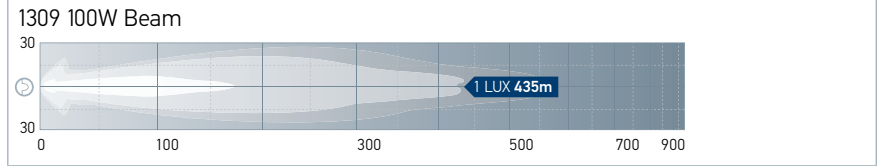
1309	1ND 005 700-111 – Driving Lamp - 12V	ADR	SPREAD BEAM
5644/100	1ND 005 700-112 – 100W Driving Lamp - 12V	ADR	SPREAD BEAM
1109	1ND 005 700-021 – Fog Lamp - Amber Optic - 12V	ADR	FOG BEAM
5643	1ND 005 700-022 – Fog Lamp Kit - Amber Optic - 12V	ADR	FOG BEAM

Mounting	Upright and Pendant		
Voltage	12V (globe included)		
Power Consumption	55W		
Globes to Suit	Driving	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)
	Fog	12V H3 (YC1255)	24V H3 (YC2470)
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1309.01	Driving Lamp Insert	
	9.1109.01	Fog Lamp Insert (amber)	
	9.1308.08	Mounting Bracket Assembly	
Accessories	8122	Protective Cover ①	
	8138	Clear Protective Cover ②	

FOG AND DRIVING

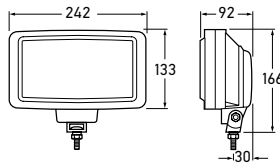


Comet 550 Spread Beam distance. Recorded with single lamp. Distance in metres.



Jumbo 220 Series

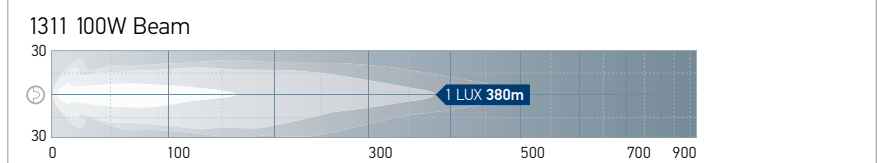
Supplied with Protective Cover, Part No. 8124.



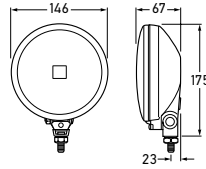
1311	1FE 006 300-121 – 100W Driving Lamp - 12V	ADR	
Mounting	Upright or Pendant.		
Voltage	12V (globe included)		
Power Consumption	100W		
Globes to Suit	12V H3 (YC12100, YC1255)	24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes		
Spare Parts	9.1311.01	Driving Lamp Insert	
	9.1311.07	Retaining Rim – black	
Accessories	8124	Protective Cover ①	
	8139	Clear Protective Cover ②	



1311 - 100W Beam distance. Recorded with single lamp. Distance in metres.



FOG AND DRIVING LAMPS



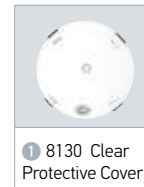
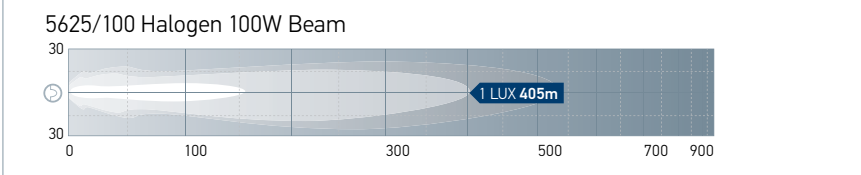
140 Series

Kit including 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8130 and all parts required for installation.

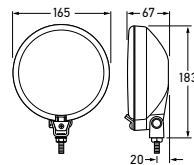
5625/100	1F4 956 011-021 – 100W Driving Lamp Kit - 12V	ADR
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	100W	
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1306.01 Driving Lamp Insert with globe holder 9.1306.09 Body Assembly 9.1345.08 Mounting Bracket Assembly	
Accessories	8130 Clear Protective Cover ②	



5625/100 Halogen 100W Beam distance. Recorded with single lamp. Distance in metres.



FOG AND DRIVING



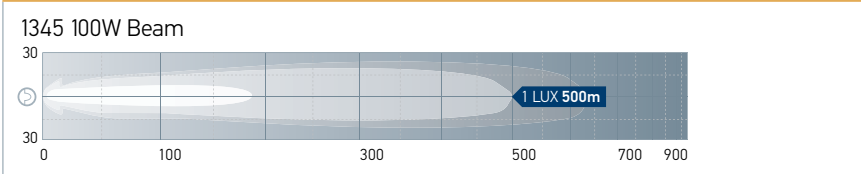
160 Series

Supplied with Protective Cover, Part No. 8106. Kit includes 2 x Driving Lamps fitted with 100W globes, 2 x Protective Covers, Part No. 8106 and all parts required for installation.

1345	1F4 905 057-001 – 100W Driving Lamp 12V	ADR
5623/100	1F6 954 982-021 – 100W Driving Lamp Kit - 12V	
Mounting	Upright	
Voltage	12V (globe included)	
Power Consumption	55W	
Globes to Suit	12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470)	
Note	3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes	
Spare Parts	9.1345.01 Driving Lamp insert 9.1345.08 Mounting Bracket Assembly 9.1345.09 Body Assembly	
Accessories	8106 Protective Cover ① 8132 Clear Protective Cover ②	

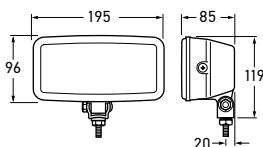


1345 Halogen 100W Beam distance. Recorded with single lamp. Distance in metres.



181 Series

Supplied with Protective Cover.
Kit includes 2 x lamps, 2 x Protective Covers, Part No. 8116 and all parts required for installation.



1307	1FD 905 054-001 – Driving Lamp 12V	ADR	SPREAD BEAM
5633/100	1FD 910 338-001 – 100W Driving Lamp Kit - 12V	ADR	SPREAD BEAM
1107	1FD 905 045-001 – Fog Lamp - Amber Optic - 12V	ADR	FOG BEAM
5632	1ND 905 378-001 – Fog Lamp Kit - Amber Optic - 12V	ADR	FOG BEAM

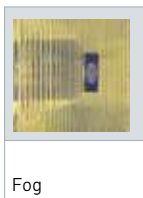
Mounting	Upright or Pendant
Voltage	12V (globe included)

Power Consumption	55W
Globes to Suit	Driving 12V H3 (YC12100, YC1255) 24V H3 (YC24100, YC2470) Fog 12V H3 (YC1255) 24V H3 (YC2470)

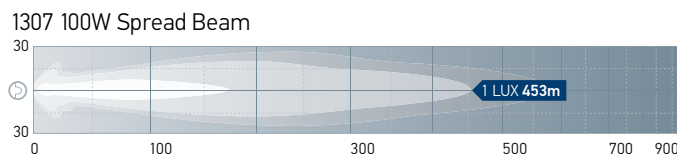
Note 3rd Edition ADR compliance applies only to 55W (C1255) and 70W (C2470) globes

Spare Parts	9.1307.01 Driving Lamp Insert 9.1107.01 Fog Lamp Insert 9.1307.09 Body Assembly 9.1308.08 Mounting Bracket Assembly
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Accessories	8116 Protective Cover ① 8133 Clear Protective Cover ②
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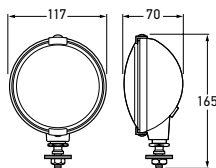


1307 100W Spread Beam distance. Recorded with single lamp. Distance in metres.




Sealed Pencil Beam Driving Lamps - 114mm

Kit includes 2 x lamps,
All parts required for installation.



1300	1F1 905 049-001 – Sealed Driving Lamp - 114mm - 12V	PENCIL BEAM
5620	1F1 905 406-001 – Sealed Driving Lamp Kit - 114mm - 12V	PENCIL BEAM


Mounting	Upright or Pendant
Voltage	12V (Sealed Beam included)
Power Consumption	100W
Spare Part	9.1300.08 Mounting Bolt Assembly
Spare Part	1089 Sealed Beam

5223	8KB 905 401-001 – Universal Driving Lamp Wiring Kit - Pre-wired - 12V DC 
Content	<ul style="list-style-type: none"> 1 x H4 Headlamp adaptor plug 1 x Heavy-duty 5mm battery supply to relay with 4mm power supply and chassis earth to both lamps 1 x Inline fuse holder with 20A Blade fuse 1 x Duckbill switch and connectors 1 x Diode protected 40A relay in heavy-duty connector

Wiring Harnesses
Universal Driving Lamp Wiring Kit

Complete Quick-Fit Wiring Harness for Driving Lamps, easy to install with no modification necessary to existing vehicle wiring. Supplied with detailed instructions



5224	8KB 905 404-001 – Universal Auxiliary Wiring Kit 
Content	<ul style="list-style-type: none"> 1 x 30A Relay 1 x On/Off Duckbill toggle switch 1 x 4.6m Length of 4mm cable 1 x 2m Length of 3mm cable

Wiring Harnesses
Universal Auxiliary Wiring Kit

Universal Wiring Kit supplied with all parts required for installation and detailed instructions.



5222	Wiring Kit - 12V DC Connects Single Light Bar only
Content	<ul style="list-style-type: none"> 1 x 12V DV Relay 1 x Blade fuse holder with 15A Fuse 1 x Pre-terminated loom and additional terminals for LED Bar connection * Connects one Light Bar only

LED Single Bar Wiring Kit - 12V DC

LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.

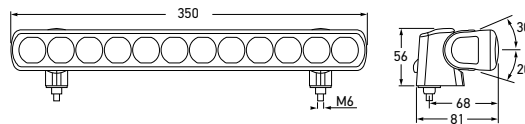


LED Light Bar 350
- Plastic Bracket

This innovative, light weight HELLA LED Light Bar 350 is the first such lamp with a body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LEDs and a maximum luminous intensity of 145,000 candela with a mere power consumption of only 25 watts.

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20) and Pencil Beam (Ref 30).

The hermetically sealed and submersible Light Bar features a Multivolt™ circuit for optimum brightness at input voltages from 9 to 33 volts, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.



1395	1FJ 958 040-021 – Ref. 20	HIGH BEAM
1396	1FJ 958 040-061 – Ref. 30	PENCIL BEAM
Mounting	Upright or pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	25W	
Maximum Luminous Intensity	1395: 96,000 candela 1396: 145,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Compliance	E4 2909 R10/04 1395: E24 0008 R112/01 Ref. 20 1396: E24 0009 R112/01 Ref. 30	
Contents	1 x LED Light Bar 350 2 x Plastic mounting brackets 1 x Instruction booklet	



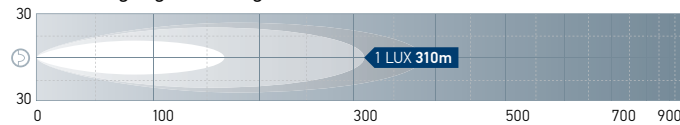
Mounting brackets allow rotation of driving light.

Mounting brackets can be positioned to suit most vehicle installations.

Plastic single mounting bracket - Disassembled view

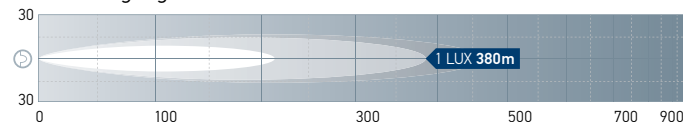
P/N 1395 - High Beam distance. Recorded with single lamp. Distance in metres.

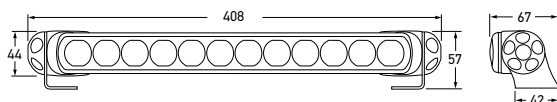
LED Driving Light Bar High Beam



P/N 1396 - Pencil Beam distance. Recorded with single lamp. Distance in metres.

LED Driving Light Bar Pencil Beam





1395HD	1FJ 958 040-031 – Ref. 20	HIGH BEAM
1396HD	1FJ 958 040-041 – Ref.30	PENCIL BEAM
Mounting	Upright or pendant.	
Voltage	Multivolt™ for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	25W	
Maximum Luminous Intensity	1395HD: 96,000 candela 1396HD: 145,000 candela	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Compliance	(E4) 2909 R10/04 1395HD: (E24) 0008 R112/01 Ref. 20 1396HD: (E24) 0009 R112/01 Ref. 30	
Contents	1 x LED Light Bar 350	2 x HD mounting brackets
		1 x Instruction booklet

LED Light Bar 350 - HD Bracket

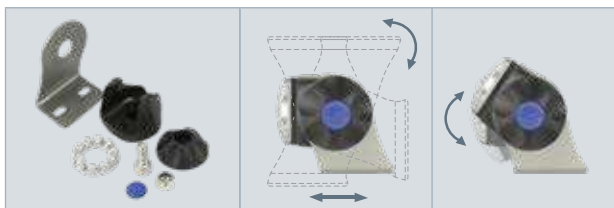
This innovative, light weight HELLA LED Light Bar 350 is the first such lamp with a body manufactured entirely from non corrosive, thermally conductive high performance plastics. This aerodynamic powerhouse features 12 durable high performance automotive grade LEDs and a maximum luminous intensity of 145,000 candela with a mere power consumption of only 25 watts.

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref 20) and Pencil Beam (Ref 30).

The hermetically sealed and submersible Light Bar features a Multivolt™ circuit for optimum brightness at input voltages from 9 to 33 volts, is fully road legal with ECE approval and comes with a comprehensive 5 year warranty.

FOG AND DRIVING

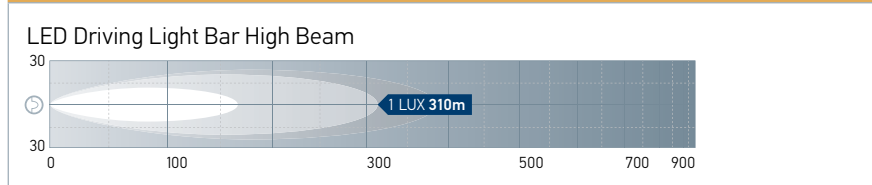
The heavy duty HD brackets are made of stainless steel, ultra durable and corrosion resistant. The perfect choice for on or off road applications.



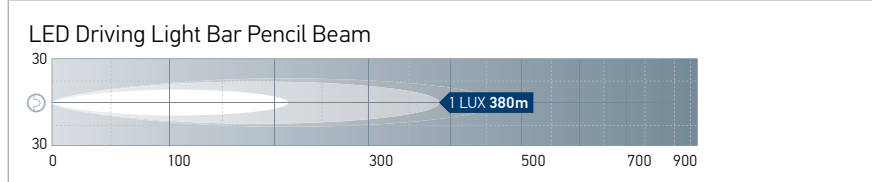
HD single mounting bracket - Disassembled view Mounting brackets can be positioned to suit most vehicle installations.



P/N 1395HD - High Beam distance. Recorded with single lamp. Distance in metres.



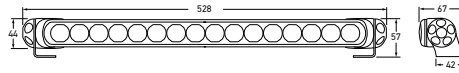
P/N 1396HD - Pencil Beam distance. Recorded with single lamp. Distance in metres.



LED Light Bar 470 HD Bracket

The dust and waterproof Light Bar comes in two different beam patterns – High Beam (Ref. 25 with 1 lux at approx. 330 metres) and Pencil Beam (Ref. 37.5 with 1 lux at approx. 410 metres) With only 950g weight the Light Bar is particularly popular for roof mount applications on ATV's and Off-road vehicles.

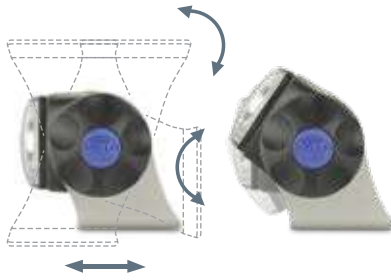
The non corrosive, thermally conductive housing is highly resistant to degradation and due to its slim profile, this streamline Light Bar is ideal for applications where aerodynamic styling are a valued attribute. The flexible, adjustable mounting system ensures easy installation. The Light Bar features a Multivolt circuit for optimum brightness at a wide range of input voltages from 9 to 33 volts and is fully road legal with ECE approval.



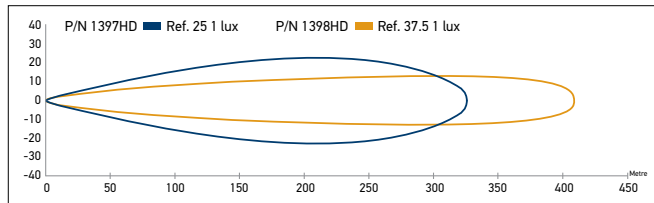
1397HD	1FJ 958 130-121 – Ref. 25	HIGH BEAM												
1398HD	1FJ 958 130-021 – Ref. 37.5	PENCIL BEAM												
Mounting	Upright or pendant.													
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.													
Power Consumption	35W													
Maximum Luminous Intensity	1397HD: 113,000 candela 1398HD: 166,000 candela													
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)													
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.													
Compliance	<table border="0"> <tr> <td></td> <td>Ⓔ24 1947</td> <td>R10/05</td> <td>Ⓔ</td> </tr> <tr> <td>1397HD</td> <td>Ⓔ24 0012</td> <td>R112/01</td> <td>Ref. 25</td> </tr> <tr> <td>1398HD</td> <td>Ⓔ24 0013</td> <td>R112/01</td> <td>Ref. 37.5</td> </tr> </table>			Ⓔ24 1947	R10/05	Ⓔ	1397HD	Ⓔ24 0012	R112/01	Ref. 25	1398HD	Ⓔ24 0013	R112/01	Ref. 37.5
	Ⓔ24 1947	R10/05	Ⓔ											
1397HD	Ⓔ24 0012	R112/01	Ref. 25											
1398HD	Ⓔ24 0013	R112/01	Ref. 37.5											
Contents	1 x LED Light Bar 470 2 x HD mounting brackets 1 x Instruction booklet													

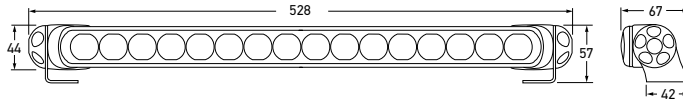


P/N 1397HD
LED Light Bar 470 - High Beam



Mounting brackets can be positioned to suit most vehicle installations.





1599HD	(Close Range and Long Range)	COMBI
Mounting	Upright or pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Combined: 36W Close/Long Range: 18W	
Maximum Luminous Intensity	77,000 candela	
Max. Light Output	2200 lumens	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Accessories	8032 Number plate bracket light bar 470 - Single Lamp 8033 Number plate bracket light bar 470 - Twin lamp 8HG 958 128-811 HD double mount stainless steel feet (one pair) 8HG 958 139-071 HD single spare end bracket kit 8XS 958 337-021 LED Light Bar - Clear protective cover 8XS 958 337-031 LED Light Bar - Amber protective cover 8XS 958 337-111 LED Light Bar - Protective cover	
Compliance		
Contents	1 x LED Light Bar 470 2 x HD mounting brackets 1 x Instruction booklet	

LED Light Bar 470

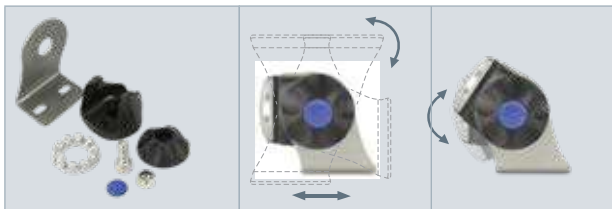
- Combi Lamp HD Bracket

The LED Light Bar 470 Combi is a unique work lamp offering three light options: close range, long range or combined - all in a single light bar. The lamp is a great addition to any Ute, ATV or off-road vehicle.

Only 1kg of weight means less stress on mounting locations, the low profile design will not restrict cooling airflow when fitted to the front of a vehicle - which can be a problem with larger lights. Don't be fooled by its size though, this light bar certainly punches above its weight with its long distance and spread light output. Multivolt circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W. Any input between 9 to 33 volts will give optimum brightness.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant Nylon (PA12) lens. The Combi Lamp is the natural choice when exceptional durability and long term reliability in demanding environments is needed.

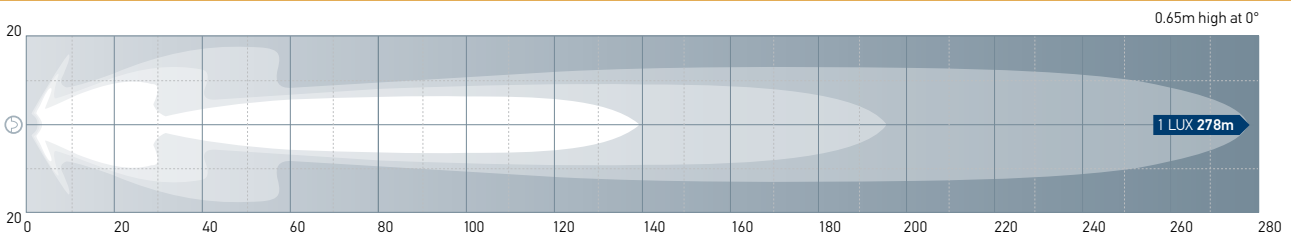
FOG AND DRIVING



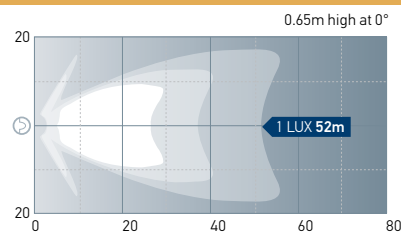
HD single mounting bracket - Disassembled view Mounting brackets can be positioned to suit most vehicle installations.



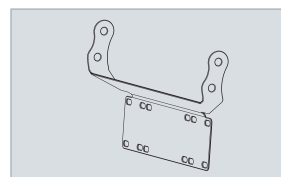
Combi Light Bar 470 - Combined (Close Range and Long Range)



Combi Light Bar 470 - Close Range



P/N 8032
Number plate bracket light bar 470 - Mounted upright or pendant (Depending on your vehicle)



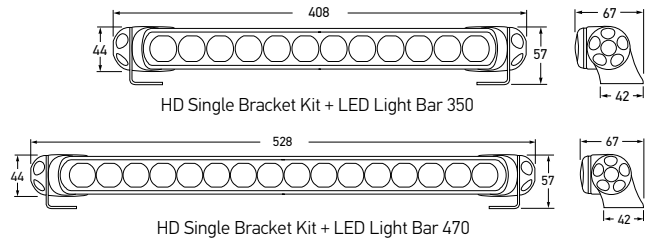
P/N 8033 Twin Lamp
Number plate bracket light bar 470 - Mounted upright or pendant (Depending on your vehicle)



Mounted on vehicle

**LED Light Bar
- HD Single Bracket Kit**

These easy to install heavy bracket kits made to suit the LED Light Bar range and can be mounted upright or pendant to accommodate most vehicle installations. The smooth brackets simply clip onto the ends of the Light Bar. The nuts, bolts and mounting brackets are made from marine grade 316 stainless steel and come with anti-theft screw caps.

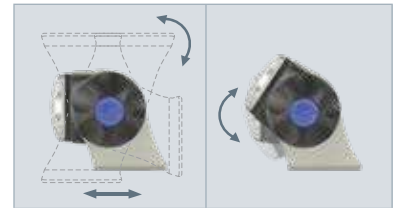


8HG 958 139-841

- Kit Contents: (Lamp not included)
- 2 x Stainless Steel Mounting Feet
 - 2 x Stainless Steel M8 x 20mm Cap Screws
 - 2 x Stainless Steel M8 Nylon Lock Nuts
 - 2 x End Adaptors
 - 2 x Friction Washers
 - 2 x End Clamps
 - 2 x Screw Caps



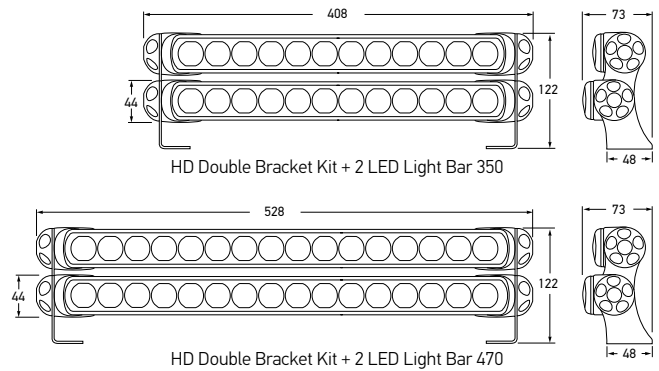
HD Single Bracket Kit + LED Light Bar 350



Mounting brackets can be positioned to suit most vehicle installations.

FOG AND DRIVING

**LED Light Bar
- HD Double Bracket Kit**



8HG 958 139-851

- Kit Contents: (Lamps not included)
- 2 x Stainless Steel Double Mounting Feet
 - 4 x Stainless Steel M8 x 20mm Cap Screws
 - 4 x Stainless Steel M8 Nylon Lock Nuts
 - 4 x End Adaptors
 - 4 x Friction Washers
 - 4 x End Clamps
 - 4 x Screw Caps



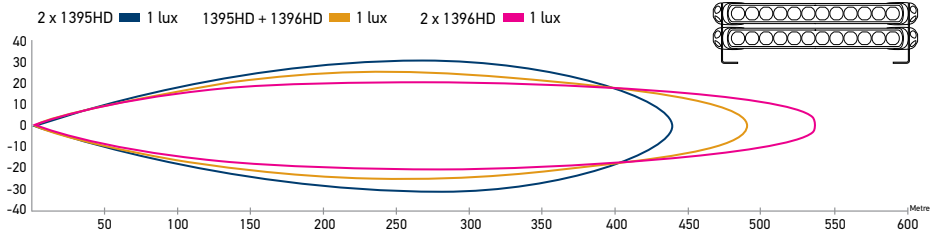
HD Double Bracket Kit + 2 x LED Light Bar 350



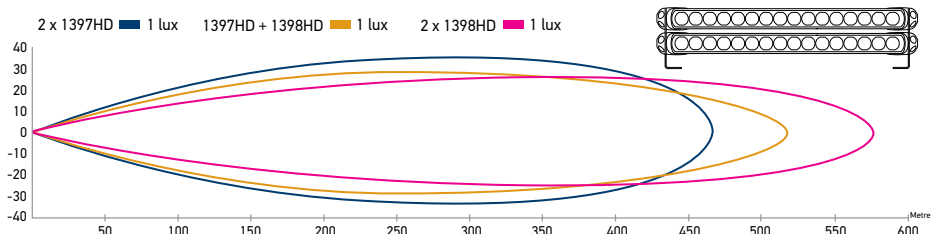
Mounting brackets allow rotation of Light Bar.

Beam Patterns - Beam distance (m)

LED LIGHT BAR 350



LED LIGHT BAR 470



Double stainless steel mounting feet

8HG 958 128-811	Suits 350 and 470 LED Light Bars
Includes	Double Stainless Steel Mounting Feet (One pair) to suit LED Light Bar



8HG 958 139-071	
Kit Includes:	<ul style="list-style-type: none"> 1 x Stainless Steel M8 x 20mm Cap Screw 1 x Stainless Steel M8 Nylon Lock Nut 1 x End Adaptor 1 x Friction Washer 1 x End Clamp 1 x Screw Cap

Single Spare bracket Kit



P/N 958 139-071
Single spare bracket for one end (no mounting feet)

5222	Wiring Kit - 12V DC Connects Single Light Bar only
Content	<ul style="list-style-type: none"> 1 x 12V DV Relay 1 x Blade fuse holder with 15A Fuse 1 x Pre-terminated loom and additional terminals for LED Bar connection * Connects one Light Bar only

LED Single Bar Wiring Kit - 12V DC

LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.



LED Light Bar Protective Covers

Whether you want to protect your light bar or make your vehicle look unique, we have the light covers you need for the job.

The amber and black covers give your vehicle a distinctive appearance that's sure to get attention, the amber cover is great during foggy conditions as it reduces glare and reflection.

8XS 958 336-021	LED Light Bar 350 Range	CLEAR
8XS 958 336-031	LED Light Bar 350 Range	AMBER
8XS 958 336-111	LED Light Bar 350 Range	BLACK
8XS 958 337-021	LED Light Bar 470 Range	CLEAR
8XS 958 337-031	LED Light Bar 470 Range	AMBER
8XS 958 337-111	LED Light Bar 470 Range	BLACK



FOG AND DRIVING

LED Light Bar Number Plate Brackets

The sleek and clean number plate bracket has been designed for easy and quick installation.

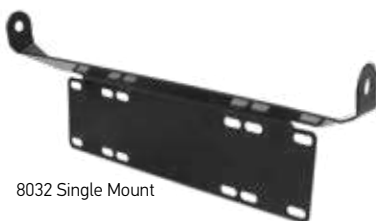
Depending on your vehicle the light bar can be mounted upright or pendant.



8030 Single Mount



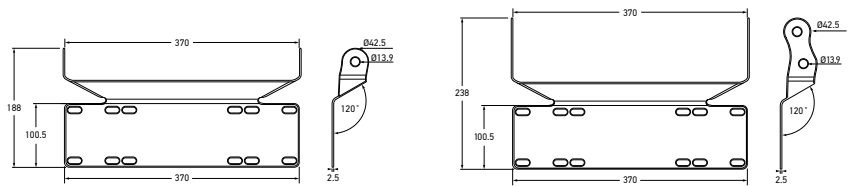
8031 Twin Mount



8032 Single Mount

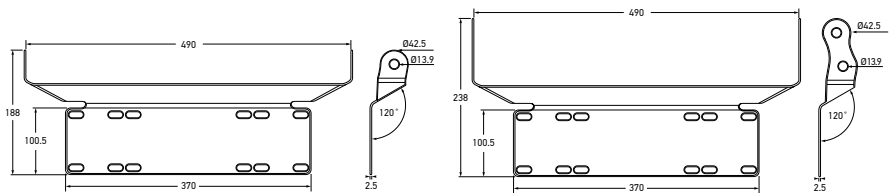


8033 Twin Mount



NUMBER PLATE BRACKET LIGHT BAR 350	
8030	846 014 075-011 – Single Mount
8031	846 014 075-021 – Twin Mount

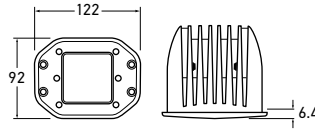
To suit the LED Light Bar 350 Work Lamp Range.
Suits standard Australian, New Zealand and European number plates.



NUMBER PLATE BRACKET LIGHT BAR 470	
8032	846 014 075-031 – Single Mount
8033	846 014 075-041 – Twin Mount

To suit the LED Light Bar 470 Work Lamp Range.
Suits standard Australian, New Zealand and European number plates.

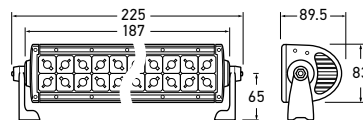
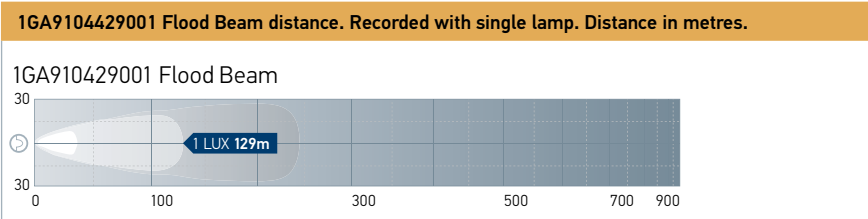
FOG AND DRIVING LAMPS



1GA 910 429-001	EnduroLED Flush Mount Kit - 80mm LED Module	
Mounting	Flush Mount.	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	20W (Single lamp)	
Lead Lengths	Pigtail 265mm - terminated to 2-pole DT connector Harness 3040mm - terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	

EnduroLED Flush Mount

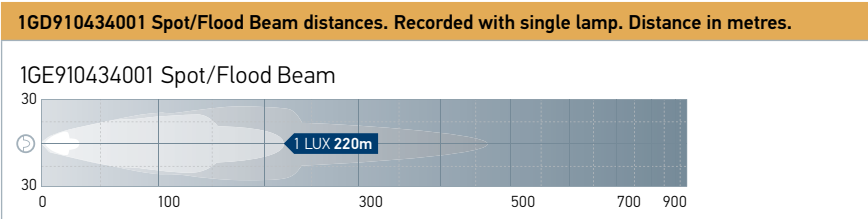
Set of 2 Lamps with integrated flush mount flange. Features 4 high output LEDs with patented hybrid reflectors. Durable hard-coated Polycarbonate lens resists U.V damage. Heatsink draws heat away from circuits extending life and performance. Made in U.S.A.



1GE 910 434-001	EnduroLED Spot /Flood Lamp - 150mm (6") LED Module	
Mounting	Upright or Pendant	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	24W (Single lamp)	
Lead Lengths	Pigtail 265mm - terminated to 2-pole DT connector Harness 3040mm - terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	

EnduroLED Series 2

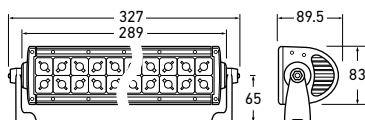
EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



FOG AND DRIVING

EnduroLED Series 2

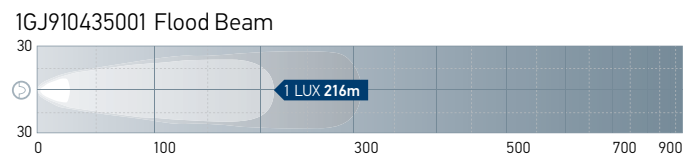
EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



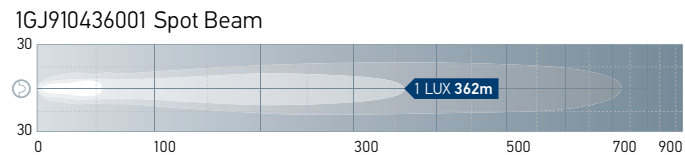
1GJ 910 435-001	EnduroLED Flood Lamp - 250mm (10") LED Module	
1GJ 910 436-001	EnduroLED Spot Lamp - 250mm (10") LED Module	
1GJ 910 437-001	EnduroLED Spot /Flood Lamp - 250mm (10") LED Module	
Mounting	Upright or Pendant	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	40W (Single lamp)	
Lead Lengths	Pigtail 495mm - terminated to 2-pole DT connector Harness 2489mm - terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	
Accessory	8XS910446001	Clear Protective Cover

FOG AND DRIVING

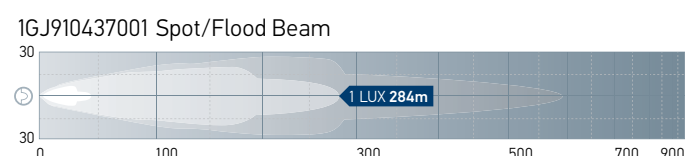
1GJ910435001 Flood Beam distances. Recorded with single lamp. Distance in metres.

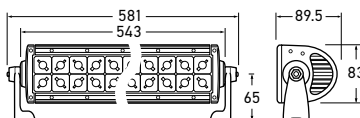


1GJ910436001 Spot Beam distances. Recorded with single lamp. Distance in metres.



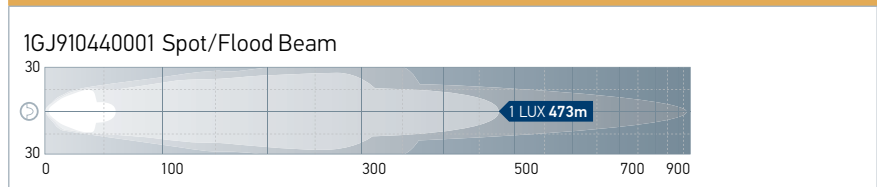
1GJ910437001 Spot/Flood Beam distances. Recorded with single lamp. Distance in metres.





1GJ 910 440-001	EnduroLED Spot /Flood Lamp - 500mm (20") LED Module	
Mounting	Upright or Pendant	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	80W (Single lamp)	
Lead Lengths	Pigtail 495mm - terminated to 2-pole DT connector Harness 2489mm - terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	
Accessories	8XS910446001 <input type="checkbox"/> Clear Protective Cover (2 required for each light bar)	

1GJ910440001 Spot/Flood Beam distances. Recorded with single lamp. Distance in metres.

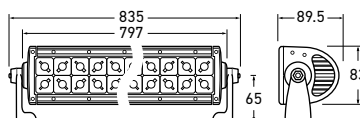


EnduroLED Series 2

EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.

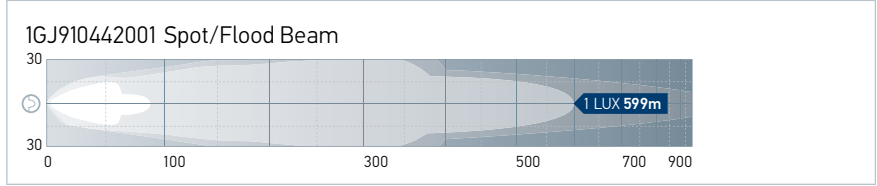


FOG AND DRIVING



1GJ 910 442-001	EnduroLED Spot /Flood Lamp - 750mm (30") LED Module	
Mounting	Upright or Pendant	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	120W (Single lamp)	
Lead Lengths	Pigtail 495mm - terminated to 2-pole DT connector Harness 2489mm - terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	
Accessories	8XS910446001 <input type="checkbox"/> Clear Protective Cover (3 required for each light bar)	

1GJ910442001 Spot Beam distances. Recorded with single lamp. Distance in metres.



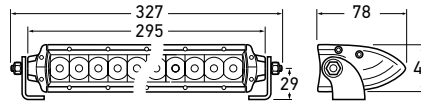
EnduroLED Series 2

EnduroLED Series 2 with 2 rows of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.



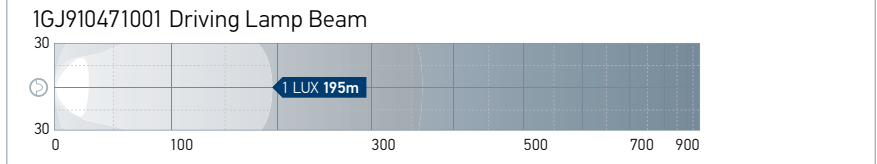
EnduroLED Series 1

EnduroLED Series 1 with single row of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.

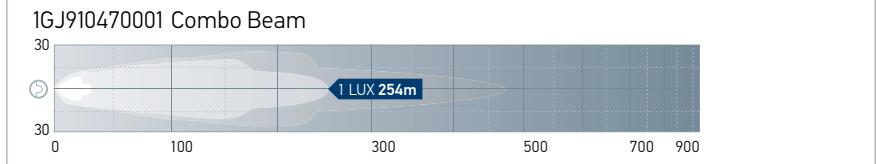


1GJ 910 471-001	EnduroLED Driving Lamp - 250mm (10") LED Module	
1GJ 910 470-001	EnduroLED Combo Lamp - 250mm (10") LED Module	
Mounting	Upright or Pendant	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	56.25W - 1GJ910471001 - 15 LEDs (single lamp) 37.5W - 1GJ910470001 - 10 LEDs (single lamp)	
Lead Lengths	Pigtail 495mm - terminated to 2-pole DT connector Harness 2489mm - terminated to 2-pole DT connector	
Protection	IP68, ASTMB117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	

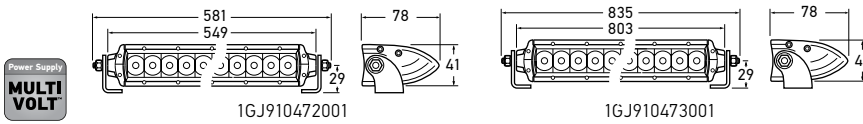
1GJ910471001 Driving Lamp Beam distances. Recorded with single lamp. Distance in metres.



1GJ910470001 Combo Beam distances. Recorded with single lamp. Distance in metres.



FOG AND DRIVING LAMPS



1GJ 910 472-001	Spot/Flood Combo - 500mm (20") LED Module	
1GJ 910 473-001	Spot/Flood Combo - 750mm (30") L ED Module	
Voltage	Multivolt (9-36V DC) Suitable for 12V and 24V electrical systems.	
Power Consumption	75W - 1GJ910472001 - 20 LEDs (single lamp) 112.5W - 1GJ910473001 - 30 LEDs (single lamp)	
Mounting	Upright or Pendant	
Lead Lengths	1GJ910472001 and 1GJ910473001	Pigtail 495mm 2-pole DT Harness 2489mm 2-pole DT
Protection	IP68, ASTM B117 SALT/FOG, MIL810-STDG Vibration certified, Reverse Polarity, Under/Over Voltage and RFI/EMC protection.	

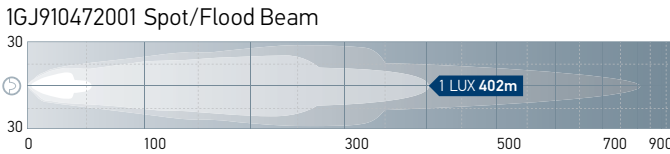
EnduroLED Series 1

EnduroLED Series 1 with single row of high output LEDs. Patented reflector design operates at high efficiency delivering more light per Watt with a 50,000+ hour life. Durable hard-coat Polycarbonate lens resists U.V damage. Large heatsink surface area draws heat away from circuits ensuring high performance and long life. Made in U.S.A.

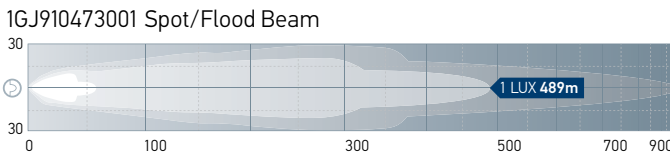


FOG AND DRIVING

1GJ910472001 Spot/Flood Combo Beam distances. Recorded with single lamp. Distance in metres.



1GJ910473001 Spot/Flood Combo Beam distances. Recorded with single lamp. Distance in metres.





Work Lamps

Effective and efficient mobile lighting can increase productivity and staff safety.



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SUPERIOR LIGHTING FOR WORKING AREAS

The superior performance of HELLA LED work lamps is recognised by industry worldwide, with the largest agriculture and construction equipment manufacturers now specifying HELLA LED lighting as original equipment.



In heavy duty work environments, HELLA LED work lamps offer decisive advantages over other lighting technologies.

01

Highly Efficient Light Output

Highly advanced optics ensure that the right amount of light reaches the area it is most needed. Beam patterns are designed to generate even illumination and avoid bright spots, dark patches or stray light rays that serve no useful purpose.

02

Low Power Consumption

LED work lamps consume significantly less power than incandescent bulbs resulting in reduced strain on both alternator and battery and lower operating costs.

03

Long Service Life

High quality materials offer superior impact, shock, vibration, UV and corrosion resistance ensuring an ultra long service life.

04

Water & Dust Proof

Fully sealed against dust and water ingress, suitable for the harshest environments.

LED Technology

The choice of LEDs, the power supply and thermal management of the work lamp are key factors in achieving optimum light output. The quality of the components used by HELLA ensures, for example, that the light remains at a constant level of brightness in a variety of voltage conditions.

Do you know what the actual light output of your work lamp is?

Some LED work lamp manufacturers typically specify a light output without factoring in the impact of temperature, optical losses or other real world effects on light output performance.

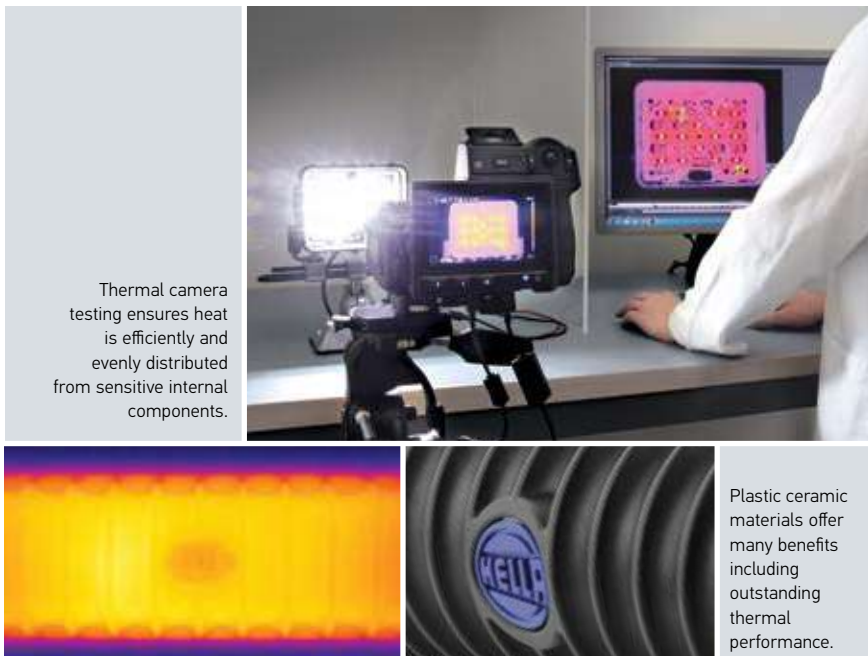
This however, does not correspond to the actual effective light output of the work lamp. When these light values are cited, they are often unrealistically high. Such lumen ratings are referred to as “Raw”, “Calculated” “Theoretical” or “Cold lumen”.

The lumen ratings of all HELLA work lamps are always based on values obtained from measuring actual lamps. The lumen values correspond to the light that is actually emitted from the work lamp. HELLA LED work lamps emit their full output in ambient temperatures of up to 50°C.

Thermal Management

Good thermal management is necessary to ensure a long service life. When an LED is illuminated, heat is produced. As LED temperature increases, light output decreases and the service life reduces. Efficient design for maximum heat dissipation must be ensured. HELLA uses the latest simulation programs during product development to ensure optimal heat dissipation through the housing.

All HELLA LED work lamps are designed to provide reliable protection against the LEDs overheating. This guarantees long service life as well as consistent light output.



Thermal camera testing ensures heat is efficiently and evenly distributed from sensitive internal components.

Plastic ceramic materials offer many benefits including outstanding thermal performance.

Superior Material choice

Revolutionary plastic ceramic materials, with outstanding thermal performance, open up a world of possibilities that was never thought to be achievable until only a few years ago. The replacement of metal based housing heat-sinks with thermally conductive plastic not only opens a myriad of design options, but also means complete corrosion resistance. This is especially important in demanding environmental conditions where lights are constantly exposed to the elements and are sometimes temporarily submerged.

A lamp housing made from thermally conductive plastic works much the same as a metal housing. The innovative ceramic based plastic transfers the heat generated by the LEDs and electronics to the outside of the lamp body, thereby lowering the internal thermal stress on the component. This ensures a long service life with minimal degradation of the light output.



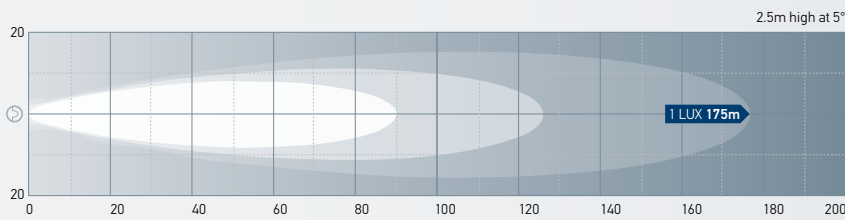
HELLA LED work lamps are designed and tested to provide efficient and effective illumination and an ultra long service life.

ILLUMINATION COMPARISONS

Work lamps can be compared by using an informative isolux lighting diagram. These diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity). To compare isolux diagrams, various criteria such as installation height, inclination angle and lux scale must be taken into account. An objective comparison is inaccurate if the criteria differ from one another. Comparing diagrams with different colour scales can be easily misinterpreted.

Long Range

Narrow beam range designed to illuminate distant objects between 60m - 200m (depending on lamp installation, installation height and inclination angle).

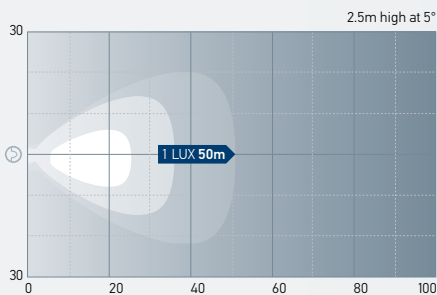


Isolux Lighting Diagram

Isolux diagrams display the projected light pattern on a surface in the form of isolux lines (lines of equal light intensity).

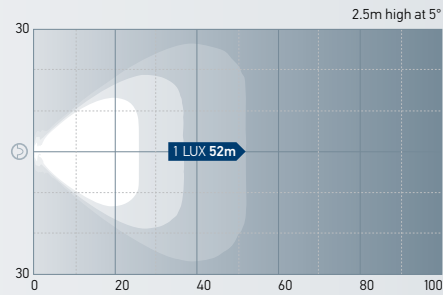
Close Range

Spread beam designed to illuminate an area near the vehicle, range approx. 20m to 60m (depending on installation height and inclination angle).



Flood

Ultra wide spread beam designed to illuminate a large area adjacent to the vehicle, typically emitting an extra wide beam (over 45° each side).



ELIVER

The Light Comparison Tool for Work Lamps

The ELIVER tool allows you to easily test and compare our products against each other in a realistic environment. This lets you find the perfect work lights or auxiliary lights for your individual requirements. You can conveniently compare different technologies, such as halogen, Xenon and LED against each other. You can view the light distribution on a farm track, on a street or under off-road conditions.



ELIVER also provides you with all of the relevant information about performance and technical specifications. This includes information such as the light range, width and intensity. As a special service, you can call up the respective light range diagram or download brief information about the product as a PDF at any time.

Visit hella.com/eliver and try it yourself.

RFCommSafe™

Electromagnetic Compatibility (EMC)



HELLA LED Lighting Products with Superior Electromagnetic Compatibility (EMC)

Electromagnetic Compatibility (EMC) is a significant safety concern for many emergency and industrial applications.

As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) that can have adverse effects on other sensitive devices such as radios or communication equipment. It is essential that the circuitry of LED lamps does not cause harmful interference to other devices and at the same time is not susceptible to radiation from other devices.

RFCommSafe™ products were developed in recognition that some radio communication equipment can self-tune to be very sensitive in remote areas. In these situations the limits prescribed by regulatory requirements and as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10, standards may not be sufficient to ensure there is no interference with very sensitive radio communication equipment. Lamps marketed as RFCommSafe™ are designed to go well beyond the requirements of these standards.

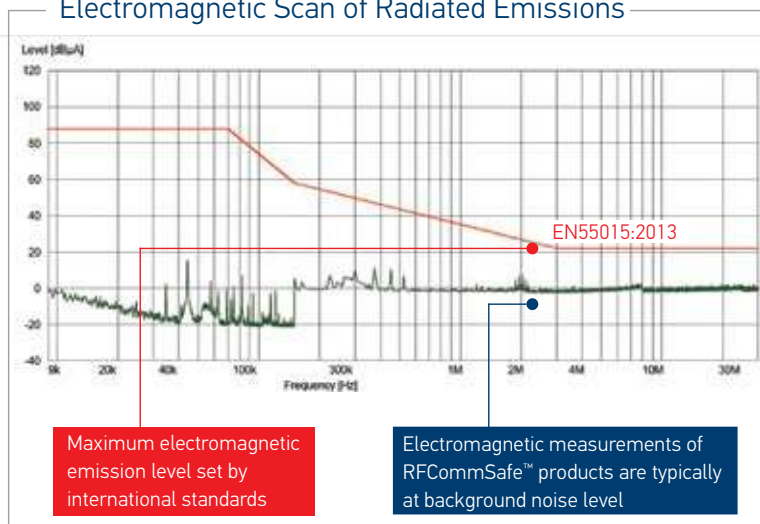
RFCommSafe™ lamps do not cause harmful interference to other devices.

Designed for safety in emergency and industrial applications.

RFCommSafe™ lamps are not susceptible to radiation from other devices

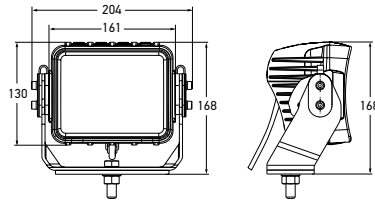


Electromagnetic Scan of Radiated Emissions



AS3000 RComSafe LED Work Lamps – Heavy Duty 12V DC

The AS3000 is a high output, compact and highly versatile Heavy Duty Work Lamp for use on mining machinery. A multi-adjustable bracket ensures accurate, stable aiming in high vibration environments. Option of three light patterns, long range, close range or flood.



All dimensions in mm.

- RF ComSafe (E) (B)
- 14 LED
- Dual Intensity: Switch Control
- Harsh UV UV RESISTANT
- Bracket STAINLESS STEEL
- HD MOUNT
- Lens Material GMD
- FIT & FORGET BY DESIGN



P/N 1GA 958 060-401 Close Range



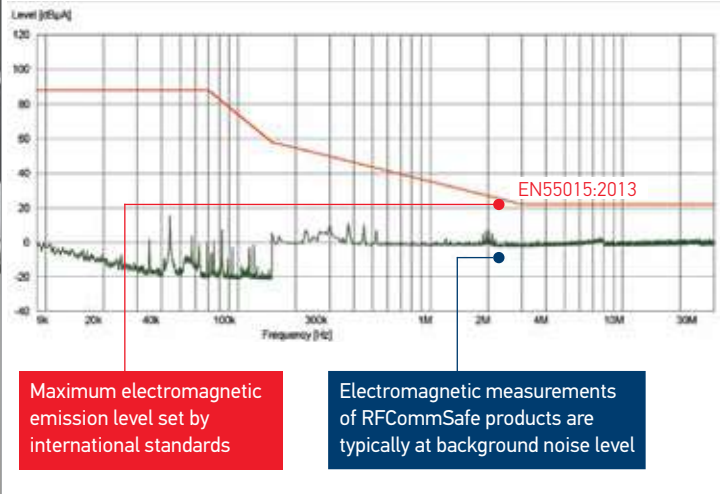
Rear View

1GA 958 060-401 – 12 Volt	CLOSE RANGE
1GA 958 060-501 – 12 Volt	LONG RANGE
1GA 958 060-601 – 12 Volt	FLOOD
Mounting	Upright or Pendant.
Voltage	12V DC
Power Consumption	High: 45W Low: 20W
Max. Light Output	3000 lumens
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	2.5 metres
Housing	Aluminium
Lens Material	Nylon (PA12)
Compliance	

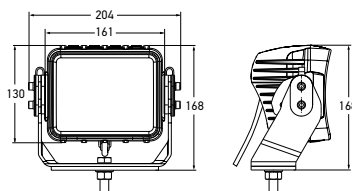
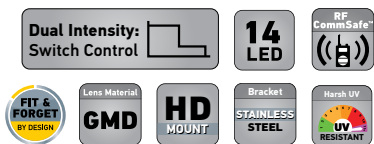
WORK LAMPS

RComSafe

Electromagnetic Scan of Radiated Emissions



WORK LAMPS



1GA 958 060-011 – 24 Volt		CLOSE RANGE	
1GA 958 060-111 – 24 Volt		LONG RANGE	
1GA 958 060-201 – 24 Volt		FLOOD	
Mounting	Upright or Pendant.		
Power Consumption	12V	24V	
	High intensity mode: 45W	45W	
	Low intensity mode: 20W	12W	
Actual Light Output	3000 lumens		
Protection	Reverse polarity and voltage spike protection.		
	IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)		
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable		
Lens Material	Nylon (PA12)		
Compliance			

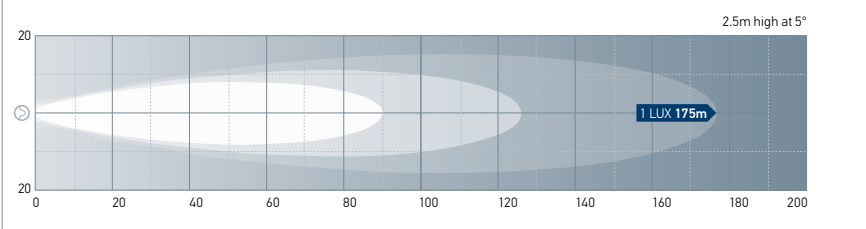
AS3000 RFCommSafe LED Work Lamp – Heavy Duty 24V DC

The AS3000 is a high output, compact and versatile heavy duty work lamp for use on mining machinery developed with RFCommSafe Technology. A multi-adjustable bracket ensures accurate, stable aiming in high vibration environments. Option of three light patterns, long range, close range or flood. RFCommSafe products offer superior electromagnetic compatibility (EMC) dramatically removing the risk of unintended electromagnetic interference (EMI) on sensitive devices such as radios or communication equipment well beyond the requirement of international standards.

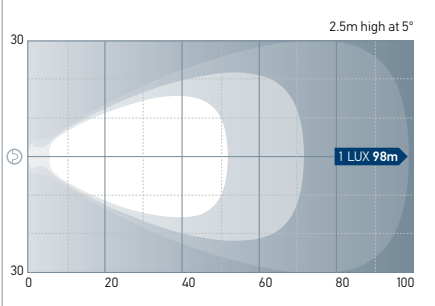


P/N 1GA 958 060-501
Long Range

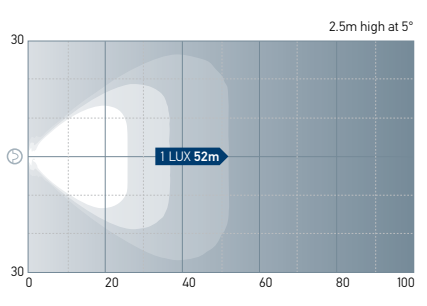
AS3000 RFCommSafe - Long Range



AS3000 RFCommSafe - Close Range



AS3000 RFCommSafe - Flood



P/N 1GA 958 060-401
Close Range



P/N 1GA 958 060-601
Flood

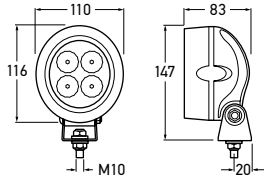


Rear view

WORK LAMPS

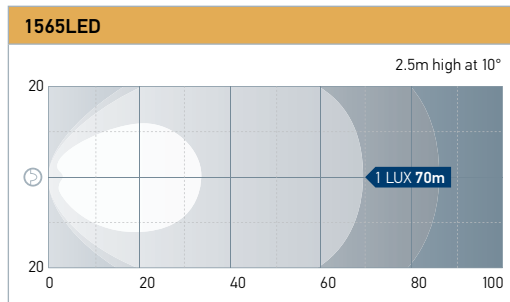
Mega Beam LED Generation IV

With its Mega Beam LED Generation IV, HELLA has introduced a compact work light that offers very high light output. For the first time, the LED's light output is on par with that of a xenon lamp. Equipped with 3 high-performance, multichip LEDs, the Mega Beam LED is rated to **2500 lumens** while consuming just **30 watts** of energy.

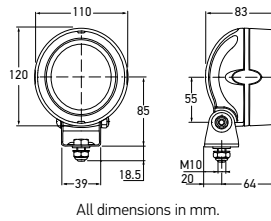


1565LED	1GM 996 136-501
Operating voltage / Rated voltage	9 – 33 V DC
Light source type	3 multichip LEDs
Power consumption	30 W
Light output	2500 lumens
Colour temperature	6500 K
Protection class	IP 6K9K, IP 6K8
Compliance	ECE-R10
Housing	Die-cast aluminum
Lens material	Glass
Light exit area	90 x 100 mm
Cable length	2 Metres
Weight	810 g

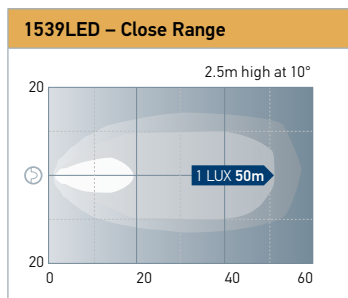
WORK LAMPS



WORK LAMPS

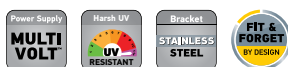
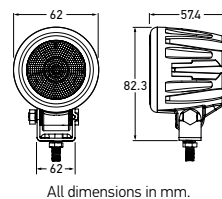


1539LED	1GM 996 136-192	☑ CLOSE RANGE
Mounting	Upright, Side or Pendant	
Voltage	Multivolt (9-33V DC)	
Power Consumption	13W	
Max. Light Output	800 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2 metres	
Housing	Aluminium	
Lens Material	Glass	
Compliance		



Close Range Mega Beam Gen. III LED Work Lamp

Mega Beam Gen. III LED Multivolt Work Lamps feature **4 high performance white LEDs (6500K)** providing consistent close range illumination with 12 or 24V DC systems. High-shine metallised Free-Form (FF) reflector and clear glass lens. Housed in an impact-resistant aluminium die-cast and UV plastic housing, fully sealed for an ultra long service life in demanding high vibration environments.



HM1590WB	1GA 910 060-021	☑ CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-64V DC)	
Power Consumption	6W	
Max. Light Output	900 lumens	
Temperature Range	-40°C to +60°C	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K7 and IP6K9K.	
Housing	Aluminium	
Lens Material	Polycarbonate	
Accessory	9.1537.08 Universal Magnetic Mounting Bracket	
Compliance		

Compact LED Work light

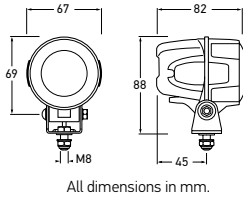
The Compact LED Work Light is a lightweight close range light designed for general illumination in areas where physical restraints in mounting locations exist.



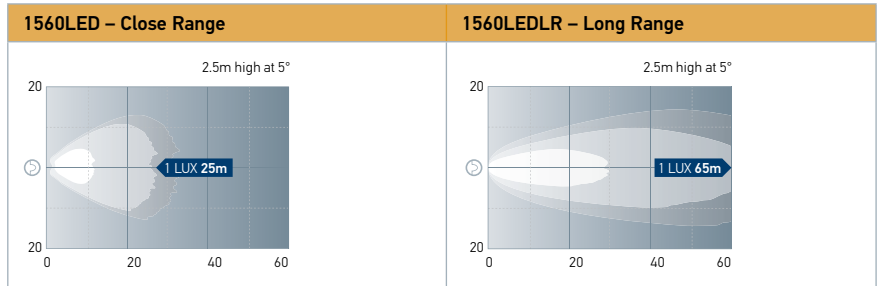
9.1537.08

Module 50 LED

The smallest Work Lamp in the HELLA range. Powerful and ultra-compact, Module 50 LED is the perfect choice for limited space setups. The **single multichip LED (6500K)** light output is **800 lumens** which is well suited to close-range illumination. A specially developed nylon (PA12) lens system concentrates the light and distributes it to the range of operation. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 50 Volts DC.



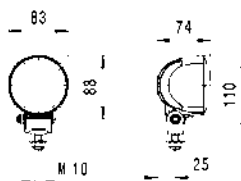
1560LED	1G0 995 050-001	CLOSE RANGE
1560LEDLR	1G0 995 050-021	LONG RANGE
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	Multivolt (9-50V DC) * not suitable for 48V DC forklifts (max. vehicle system voltage 42V DC).	
Power Consumption	15W	
Max. Light Output	800 lumens	
Temperature Range	-40°C to +50°C	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mounting Bracket ①
Compliance		



ULTRA-COMPACT AND POWERFUL, MODULE 50 LED BLUE SPOT – PERFECT FOR FORKLIFT APPLICATIONS

FOR DETAILS SEE PAGE 198

WORK LAMPS



All dimensions in mm.

1567LED	1G0 996 476-001	CLOSE RANGE
1567LEDLR	1G0 996 476-011	LONG RANGE
Mounting	Upright or Pendant	
Voltage	Multivolt (9-33V DC)	
Power Consumption	30W	
Max. Light Output	2500 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	2 metres	
Protection	Reverse polarity and voltage spike protection. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8	
Housing	Aluminium	
Lens Material	Glass	
Compliance		

Module 70 Gen. IV LED Work Lamps

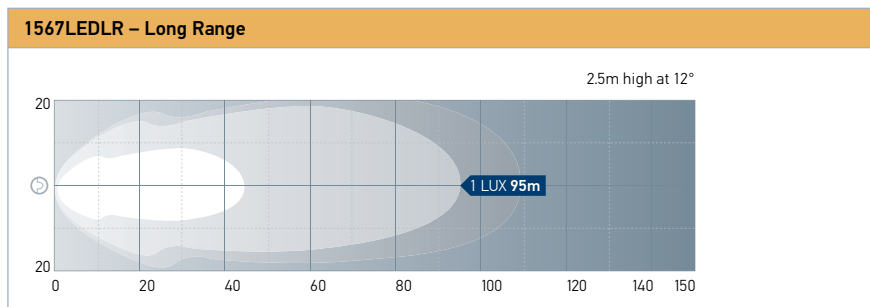
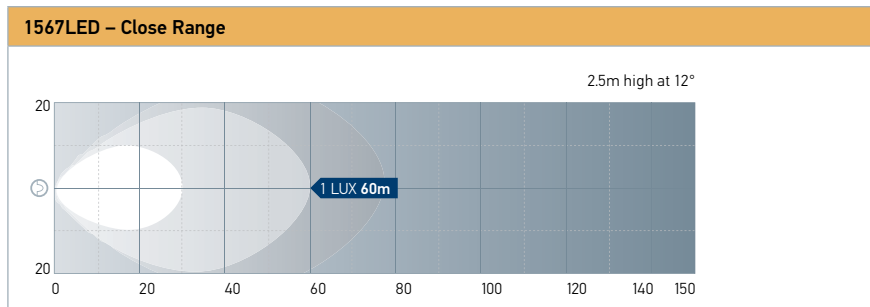
With **3 high performance multichip LEDs**, the Module 70 Gen. IV LED Work Lamp is rated to **2500 lumens** while consuming just **30 watts**, with a colour temperature of **6500K**.

Multi-volt compatible and can therefore be operated with a 12 or 24 Volt DC power supply. Integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating when operating voltage fluctuates between 9 and 33 Volts DC. In addition, temperature sensors protect the worklight from overheating.



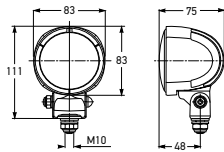
P/N 1567LED

WORK LAMPS



Close Range M70 Gen. III LED Work Lamps

The Module 70 Gen. III LED Work Lamp provides **800 lumens**. Equipped with **4 high performance LEDs (6500K)**, high-sheen metallised Free-Form (FF) reflector and clear glass lens for consistent close-range illumination. Housed in an impact-resistant aluminium die-cast housing, fully sealed for an ultra long service life in demanding high vibration environments.



All dimensions in mm.



1547LEDRET

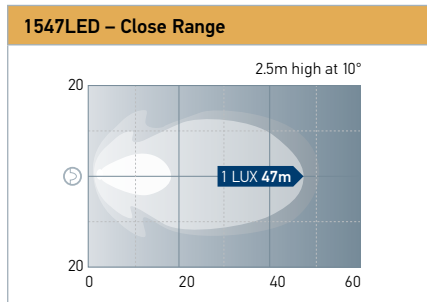


1 HM70PR

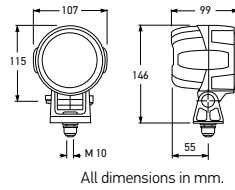
2 HM70PI

3 9.1517.08

1547LED	1G0 996 176-721	CLOSE RANGE
1547LEDRET	1G0 996 176-724	CLOSE RANGE
Mounting	Upright, Side or Pendant	
Voltage	Multivolt (9-33V DC)	
Power Consumption	13W	
Max. Light Output	800 lumens	
Temperature Range	-40°C to +50°C	
Cable Length	2 metres	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K9K and IPX7.	
Housing	Aluminium	
Lens Material	Glass	
Compliance		
Accessories	HM70PR HM70PI 9.1517.08 9.HM70BR	Pipe Mount Tube Attachment (rotating) 1 Pipe Mount Tube Attachment 2 Universal Pedestal Mounting Bracket 3 Module 70 Stainless-steel Bracket



WORK LAMPS



All dimensions in mm.

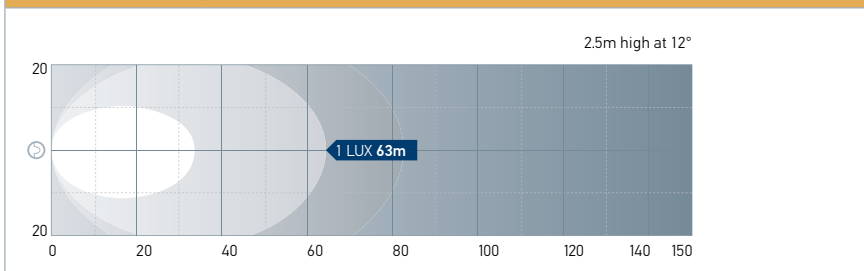
Module 90 LED Work Lamp

The Module 90 LED is a robust Work Lamp in a universal, attractive design. The black aluminum housing features cooling fins which ensure the required heat dissipation from the 4 high-power LEDs.



1564LED	1G0 996 263-031	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	40W	
Max. Light Output	3400 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K8	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06 DT Pigtail Loom. 2.0 metre.	
Compliance		

1564LED – Close Range



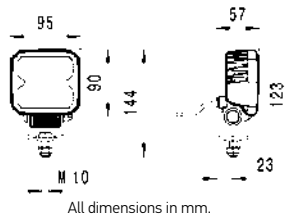
MODULE 90 LED Work Lamps

- Powerful LED Work Lamp.
- Lighting performance at xenon level.
- Compact and space-saving design.

WORK LAMPS

RokLUME 155 TP LED Work Lamps

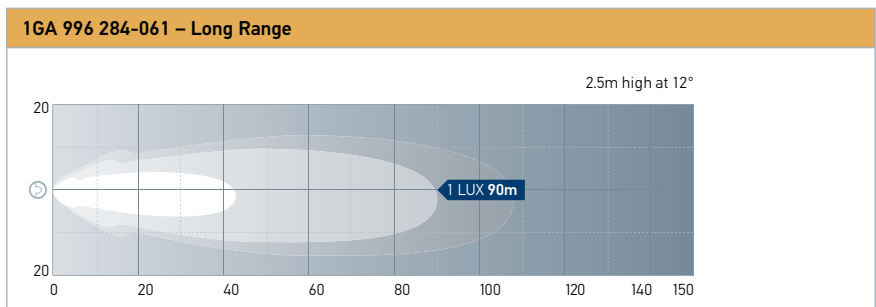
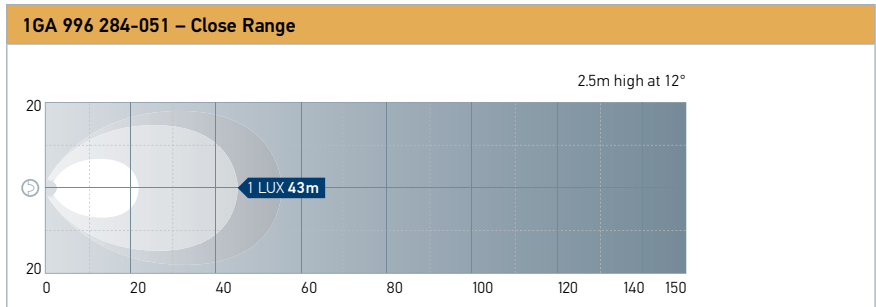
The RokLUME 155 TP LED is a robust Work Lamp in a universal, attractive design. The innovative **thermally conductive synthetic material housing** also features cooling fins which ensure the required heat dissipation from the **4 high-power LEDs**.



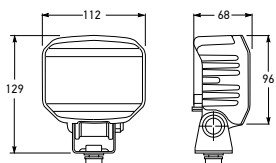
P/N 1GA 996 284-051

WORK LAMPS

1GA 996 284-051		CLOSE RANGE
1GA 996 284-061		LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	15W	
Max. Light Output	1200 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K9K (Protection against dust and high-pressure/steam jet cleaning) IP 6K7	
Cable Length	200mm with DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Thermal Conductive Plastic	
Lens Material	PC Polycarbonate	
Compliance		
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres



WORK LAMPS

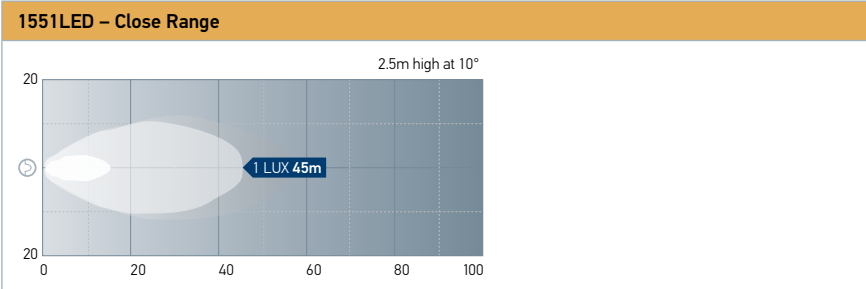
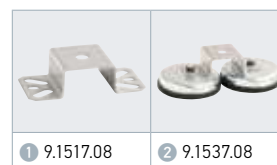


All dimensions in mm.

1551LED	1GA 996 188-001	CLOSE RANGE
1551LEDPMMMA	1GA 996 188-021 – Nylon (PA12)	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	18W	
Max. Light Output	850 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Glass – 1551LED or Nylon (PA12) – 1551LEDPMMMA	
Compliance	Ei CE RoHS	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessories	9.1517.08 9.1537.08	Universal Pedestal Mounting Bracket ① Universal Magnetic Mounting Bracket ②

Power Beam 1000 LED Work Lamps

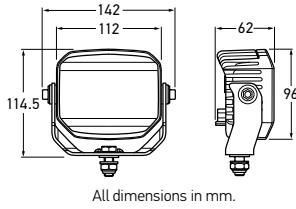
LED Work Lamp with 6 high performance LEDs (6500K) for a powerful white light. Features robust aluminium die-cast housing, stainless steel bracket and Free-Form (FF) reflector with clear lens for consistent close range illumination. Integrated DT socket electrical connection.



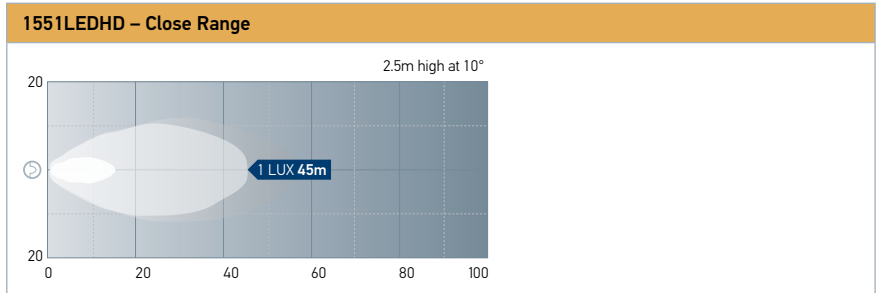
WORK LAMPS

Power Beam 1000 LED Work Lamp – Heavy Duty

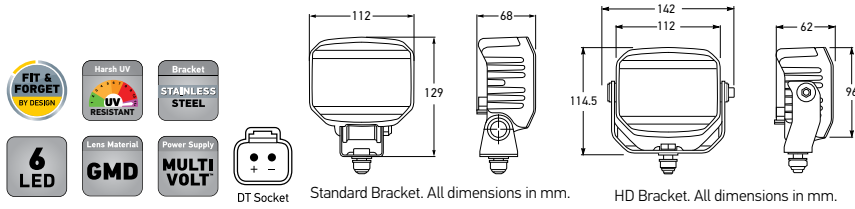
LED Work Lamp with **6 high performance white LEDs (6500K)** for a powerful white light. Features robust aluminium die-cast housing, stainless steel heavy duty bracket and Free-Form (FF) reflector with clear hardened glass lens for consistent close range illumination. Integrated DT socket electrical connection.



1551LEDHD	1GA 996 188-011	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	18W	
Max. Light Output	850 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Glass	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	
Compliance	E1 CE	



WORK LAMPS



1557LEDHD	1GA 996 288-031 – Heavy Duty Bracket	CLOSE RANGE
1557LEDHDLR	1GA 996 288-021 – Heavy Duty Bracket	LONG RANGE
1557LED	1GA 996 288-011	CLOSE RANGE
1557LEDRET	1GA 996 288-013	CLOSE RANGE
1557LEDLR	1GA 996 288-001	LONG RANGE
1557LEDLRRET	1GA 996 288-002	LONG RANGE

Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	22W	
Max. Light Output	1300 lumens	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount ⓘ
Compliance		

Power Beam 1500 LED Work Lamps

Premium LED Work Lamp with **6 high performance LEDs (6500K)**. Aluminium housing. Light output rated at **1300 lumens**. nylon (PA12) lens.

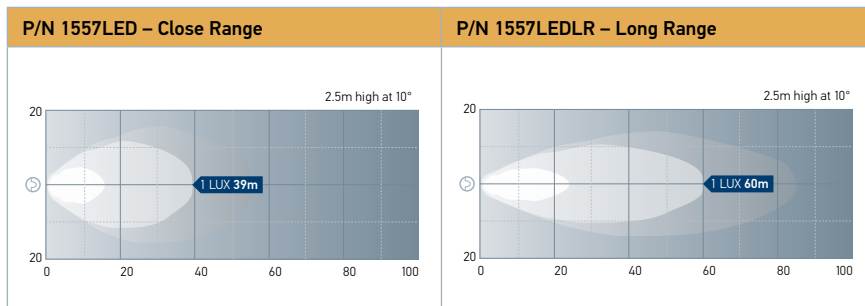


P/N 1557LEDHD



P/N 1557LED

WORK LAMPS



1557LEDRET

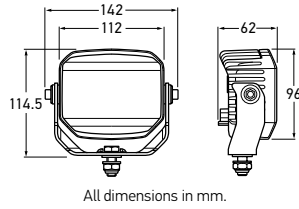
1557LEDLRRET



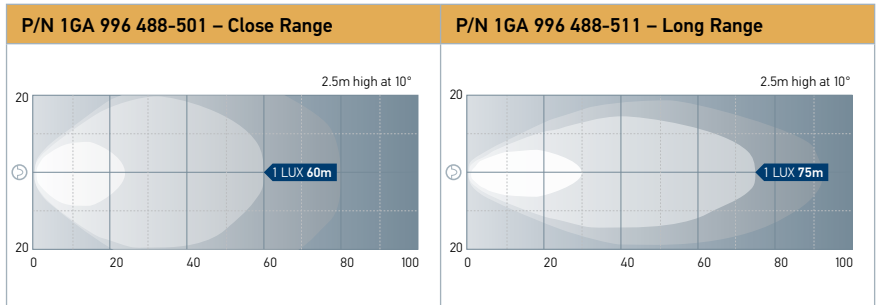
ⓘ 9.1517.08

RokLUME 190 TP Work Lamps

The compact RokLUME 190 TP is an ideal LED work lamp that combines a powerful light output with a practical design.



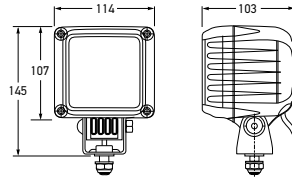
1GA 996 488-501		CLOSE RANGE
1GA 996 488-511		LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	26W	
Max. Light Output	1850 lumens	
Colour Temp.	5000 K	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Integrated DT Socket.	
Housing	Thermally Conductive Plastic	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres	
Compliance	Ei CE	



WORK LAMPS



DT Socket



All dimensions in mm.

Power Beam 2000 LED Work Lamp

Extremely powerful LED Work Lamp equipped with **16 high-power LEDs (6500K)** for a superior white light output similar to XGD, rated at **2200 lumens**. Features robust aluminium die-cast housing, stainless-steel bracket and Free-Form (FF) reflector with nylon (PA12) lens for consistent long-range illumination without harsh contrasts. Also available with integrated DT input socket (Part No. 1553LEDDT).

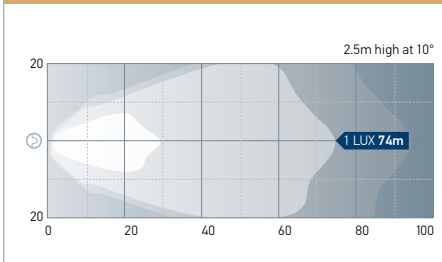
1553LED	1GA 996 189-002	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	43W	
Max. Light Output	2200 lumens	
Temperature Range	-40°C to +50°C	
Protection	Reverse Polarity and Transient Voltage Suppressor (TVS). Fully sealed against dust and moisture to IP6K7 and IP6K9K.	
Cable Length	1553LED – 2.0 metres	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Accessory	9.1517.08	Universal Pedestal Mount ⓘ
Compliance		



1 9.1517.08

WORK LAMPS

1553LED – Close Range

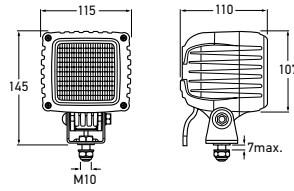


Superior white light output (6500K)

EXTREMELY POWERFUL

**Power Beam 3000
LED Work Lamps**

Extremely powerful and compact LED Work Lamp equipped with a total of **16 high-power LEDs (6500K)** for an unbeatable white light output far superior to Xenon Gas Discharge, rated at **3000 lumens**. Equipped with sturdy die-cast aluminium housing, stainless-steel bracket, nylon (PA12) dispersion lens and Free-Form (FF) reflector for optimum illumination and maximum mechanical resistance. Available with heavy duty Trunnion mounting bracket (1555LEDHD).



All dimensions in mm.



1555LED	1GA 996 192-001	CLOSE RANGE
1555LEDHD	1GA 996 192-021	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	43W	
Temperature Range	-40°C to +50°C	
Max. Light Output	3000 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.0 metres	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Accessory	9.1517.08	Universal Pedestal Mount ¹
Compliance		



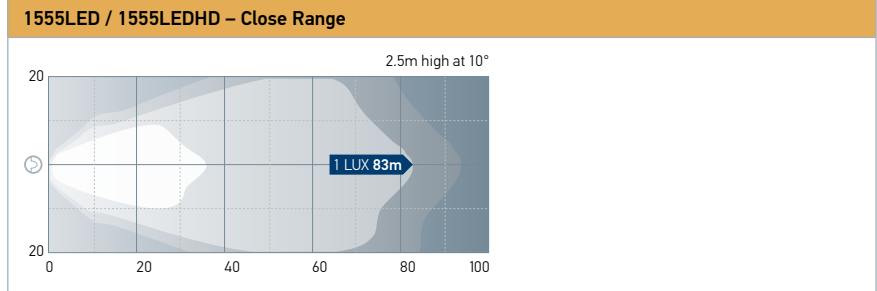
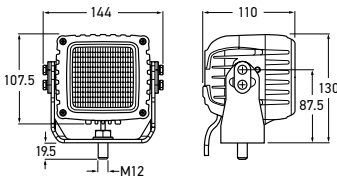
P/N 1555LED



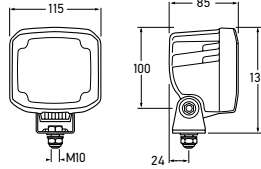
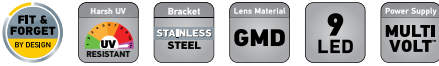
¹ 9.1517.08



P/N 1555LEDHD



WORK LAMPS



1566LED	1GA 995 606-001	CLOSE RANGE
1566LEDLR	1GA 995 606-011	LONG RANGE
1566LEDPB	1GA 995 606-021	PENCIL BEAM
Voltage	9 – 33 V DC	
Power consumption	56 W	
Light output	4000 lumens	
Light source	8 High-Power LEDs	
Colour temperature	6500 K	
Housing material	Aluminium Die cast	
Lens material	Nylon (PA12)	
Connection	Integrated DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Mounting	Pendant and upright mounting	
Protection	Overheating and reverse polarity protection	
Protection class	IP 6K9K, IP 6K8	
Type approval	E1 ECE-R10	
Weight	1.040 g	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres

Ultra Beam Gen. II
LED Work Lamps

Introducing the latest generation of the LED Ultra Beam range. The light-optimised Ultra Beam LED Gen. II has a much higher light output of **4000 lumens** and can replace xenon work lamps.



P/N 1566LED - Close Range



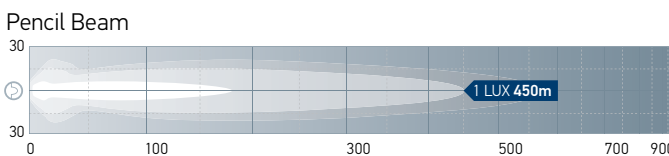
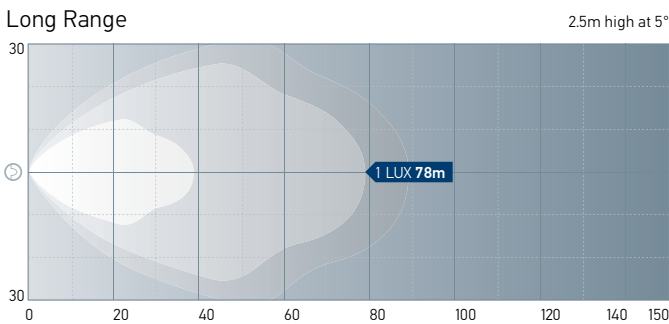
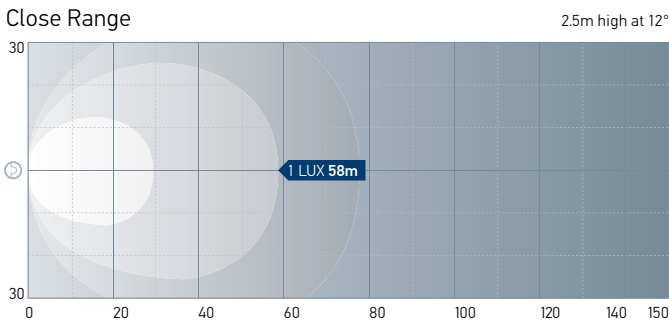
P/N 1566LEDLR - Long Range



P/N 1566LEDPB - Pencil Beam

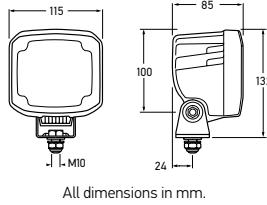
WORK LAMPS

LED Ultra Beam Gen. II Work Lamps



Ultra Beam LED Work Lamps

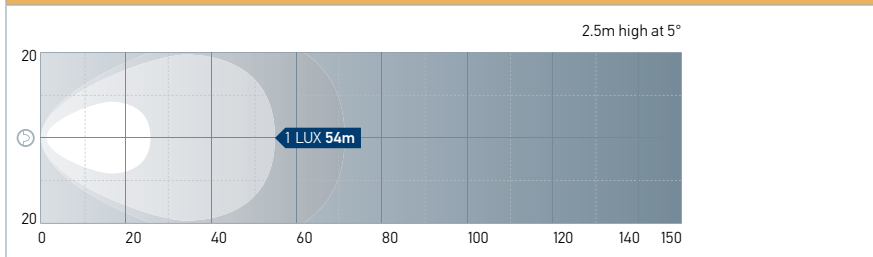
Ultra Beam LED work lamps feature **9 high power LEDs (6500 K)** and light output is a powerful **2200 lumens**. Light is distributed by a specially developed multi-faceted reflector and nylon (PA12) lens, thus ensuring homogeneous illumination. The integrated electronics protect the device in the event of polarity inversion and guarantee constant brightness, even when operating with voltage fluctuations between 9 and 33 Volts DC.



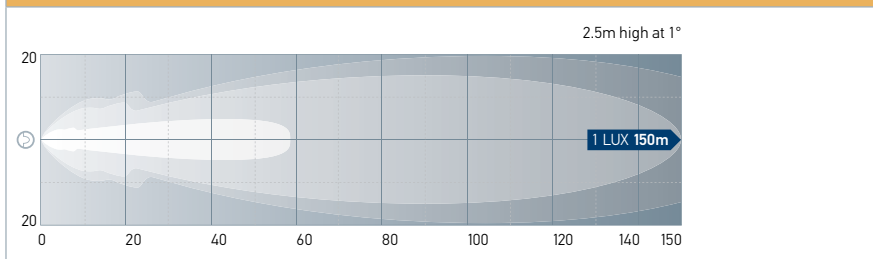
1562LED	1GA 995 506-001	CLOSE RANGE
1562LEDLR	1GA 995 506-031	LONG RANGE
1562LEDWB	1GA 995 506-051	EXTRA WIDE BEAM

Mounting	Upright – 1562LED Upright or Pendant – 1562LEDLR, 1562LEDWB	
Voltage	Multivolt (9-33V DC)	
Power Consumption	30W	
Max. Light Output	2200 lumens	
Colour Temp.	6500 K	
Temperature Range	-40°C to +50°C	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Compliance	(E) CE	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount

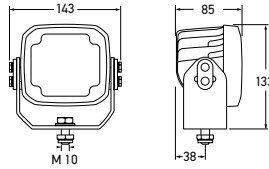
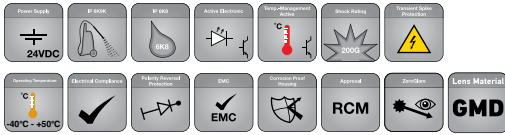
1562LED / 1562LEDP – Close Range



1562LEDLR – Long Range



WORK LAMPS



RokLUME 280 N LED Work Lamps

Compact Size suitable for all Mining machinery. Heavy Duty bracket for high vibration requirements. **Corrosion resistant NanoSafe coating.**

1GA 995 606-541	ZEROGLARE
1GA 995 606-501	CLOSE RANGE
1GA 995 606-511	LONG RANGE
1GA 995 606-521	PENCIL BEAM

Mounting	Upright or Pendant. Heavy Duty bracket resists vibration.
Voltage	9 – 32 V DC
Power Consumption	Max. 56W
Max. Light Output	4400 lumens
Colour Temp.	5000 K
Protection	Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)
Housing	Aluminium die cast. NanoSafe non-stick / easy to clean surface coating.
Lens Material	Nylon (PA12)
Cable Length	Integrated DT Socket.
Compliance	



1GA 995 606-501 Close Range

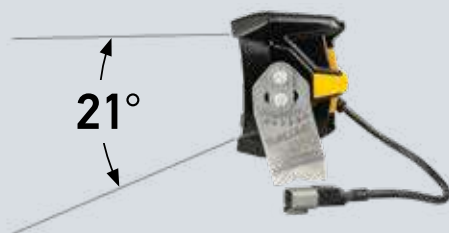


1GA 995 606-511 Long Range

WORK LAMPS



The innovative **ZEROGLARE** optical system ensures all emitted light is only directed below the horizontal plane where it is needed and not into oncoming operators field of vision. Visit hellazeroglare.com for more information.

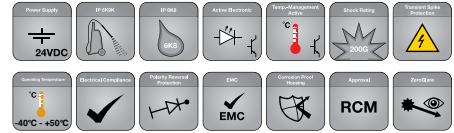
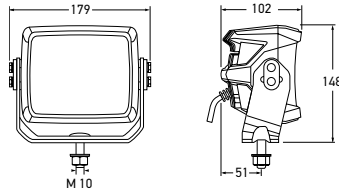


Sharp cut off beam for reduced glare. Excellent for use in foggy or dusty conditions.



RokLUME 380 N LED Work Lamps

Developed specifically for Mining applications. Heavy duty bracket resists against vibration. Light distribution optimised for mining machinery. Light output (measured): up to **7500 lumens**.



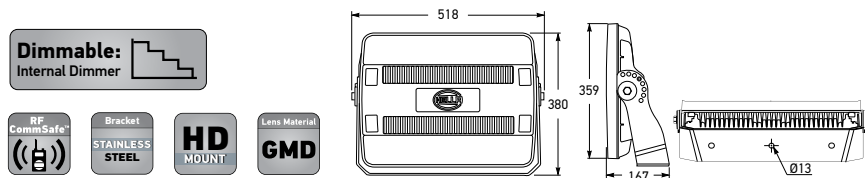
1GA 996 197-001 ZEROGLARE



1GA 996 197-041 Pencil Beam

1GA 996 197-001	ZEROGLARE
1GA 996 197-011	CLOSE RANGE
1GA 996 197-021	LONG RANGE
1GA 996 197-031	FLOOD OPTIC
1GA 996 197-041	PENCIL BEAM
Mounting	Upright or Pendant. Heavy Duty bracket resists vibration.
Voltage	12V DC
Power Consumption	Max. 84W
Max. Light Output	7800 lumens
Colour Temp.	5000 K
Protection	Reverse polarity protection. Transient spike circuit protection. IP 6K8 (Protection against dust and temporary water immersion) IP 6K9K / IP6K8 (Protection against dust and high-pressure/steam jet cleaning)
Housing	Aluminium
Lens Material	Hard-coated PC
Cable Length	Integrated DT Socket.
Compliance	
Accessory	9.1551LED.06 DT Pigtail Loom, 2 metres

WORK LAMPS

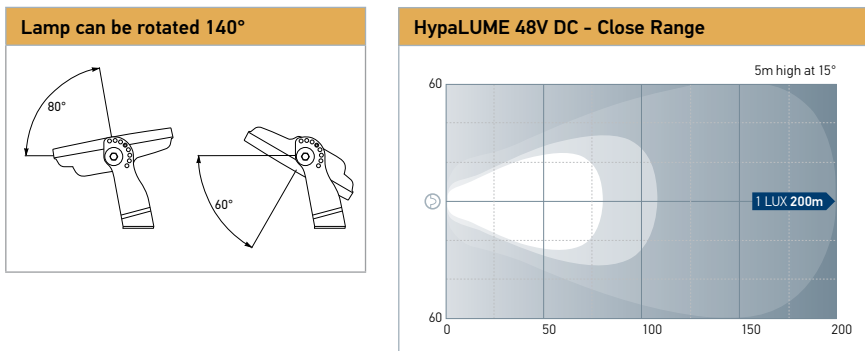
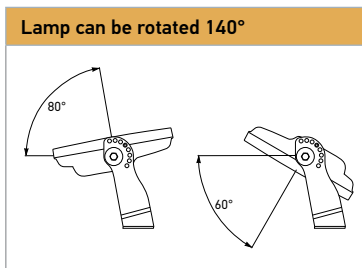


1GJ 011 872-221	CLOSE RANGE
1GJ 011 872-231	LONG RANGE
1GJ 011 872-241	EXTRA WIDE

Mounting	Upright or Pendant.	
Voltage	Optimum brightness at input voltages from 46 to 53 volts.	
Power Consumption	300W max. (6.25 @ 48V DC)	
Actual Light Output	28000 lumens	
Operating Temperature Range	-40°C to +50°C	
LED Colour Temperature	5700 K	
Protection	Reverse polarity, transient spike and over voltage protection. IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning) Advanced thermal management	
Soft Start (PIN 3)	Reduces start-up inrush ramp-up (100% brightness in 4 seconds)	
Connection	4 Pin Deutsch plug	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Accessory	8KB 958 304-001	1m of sheathed cable - 4 Pin Deutsch plug
Compliance	CE FC	



Front view Side view Rear view Locking mechanism



HypaLUME 48V DC RfCommSafe LED Flood Lamp - Heavy Duty

The HypaLUME 48V DC RfCommSafe has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **28000 lumens** whilst only consuming **300W**.

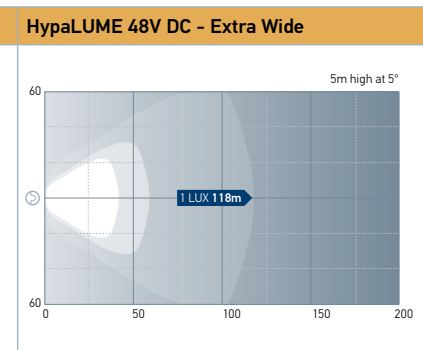
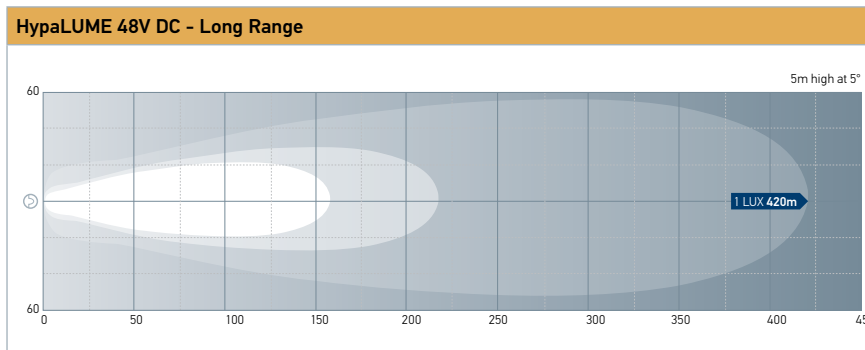
The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness. The LED driver electronics ensure light output remains stable over a wide range of voltage variations. The built-in soft start feature eliminates a high in-rush current at start up.

48V DC HypaLUME is designed to RfCommSafe, ultra low emission (EMC) requirements surpassing International Standards by a wide margin.



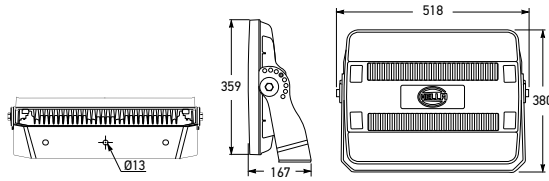
Accessory Cable - P/N 8KB 958 304-001

WORK LAMPS



HypaLUME 24/48V DC LED Flood Lamp - Heavy Duty

The 24/48V DC HypaLUME has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **25000 lumens** whilst consuming less than **260W**. Comprehensive sealing and anti-corrosion measures have been taken to ensure this lamp withstands the toughest conditions. The premium aluminium housing is corrosion resistant with a nonstick and easy to clean surface coating. The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness. The LED driver electronics ensure light output remains stable over a wide range of voltage variations. The HypaLUME is also protected from reverse polarity and short circuit faults.



1GJ 011 872-501	CLOSE RANGE
1GJ 011 872-511	LONG RANGE
1GJ 011 872-521	EXTRA WIDE
Mounting	Upright or Pendant.
Voltage	Optimum brightness at input voltages from 22 to 52 volts.
Power Consumption	260W max. (10A @ 24V DC)
Actual Light Output	25000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	Reverse polarity, transient spike and over voltage protection. IP 6K9K (Fully sealed against dust and high-pressure/steam jet cleaning) Advanced thermal management
Cable Length	Supplied with 1.8m of easy plug-in sheathed cable
Connection	4 Pin Deutsch plug
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Compliance	CE FC ISO 13766 CISPR25



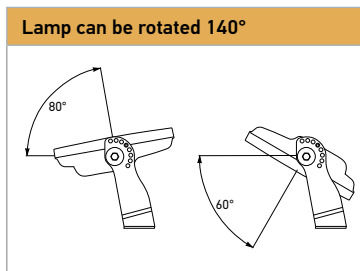
WORK LAMPS



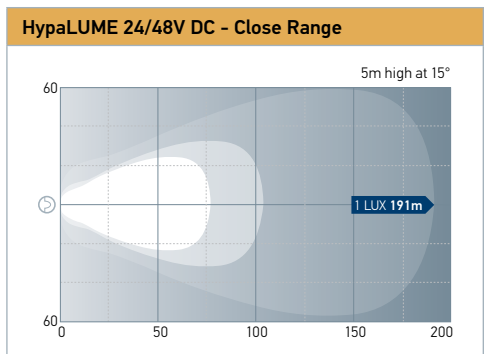
Locking mechanism Rear view Side view Front View



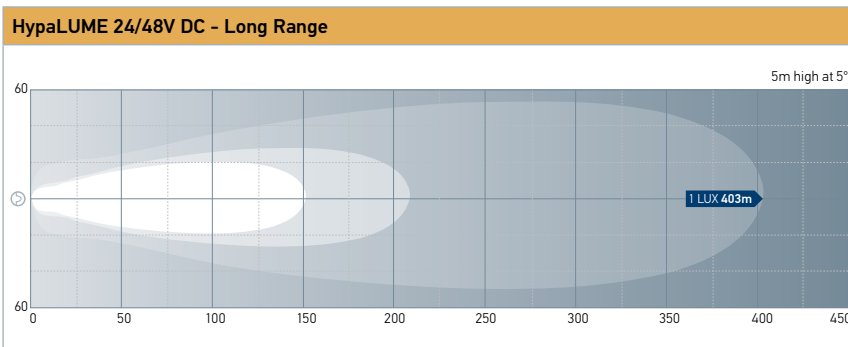
1.8m Fly Lead is Included



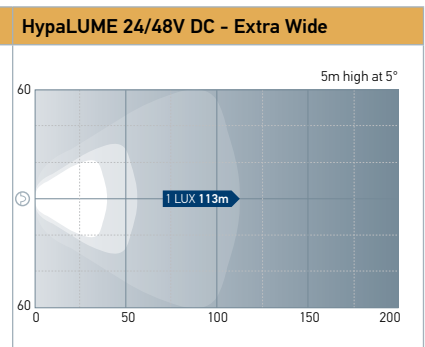
Lamp can be rotated 140°



HypaLUME 24/48V DC - Close Range

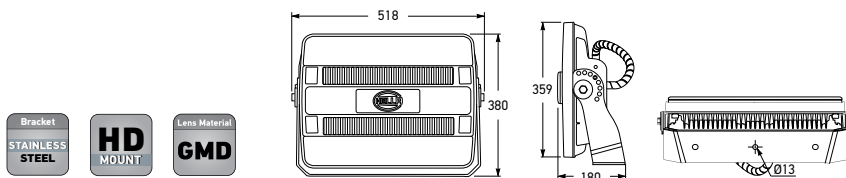


HypaLUME 24/48V DC - Long Range



HypaLUME 24/48V DC - Extra Wide

WORK LAMPS



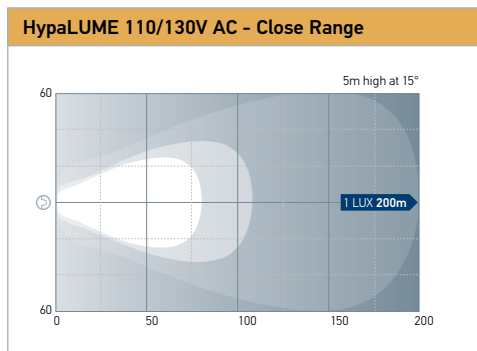
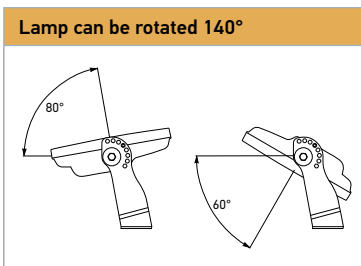
1GJ 958 334-011	CLOSE RANGE
1GJ 958 334-021	LONG RANGE
1GJ 958 334-031	EXTRA WIDE
Mounting	Upright or Pendant.
Voltage	Optimum brightness at input voltages from 100 to 240V AC
Power Consumption	300W max.
Actual Light Output	28000 lumens
Operating Temperature Range	-40°C to +50°C
LED Colour Temperature	5700 K
Protection	IP 66 (Protection against dust and high pressure water jets) IP 67 (Protection against dust and temporary water immersion) Advanced thermal management
Cable Length	Supplied with 2.0m of easy plug-in sheathed cable
Connection	Wieland RST Mini - 16A
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Compliance	AS/NZS 60598.2.5

HypaLUME 110/230V AC LED Flood Lamp - Heavy Duty

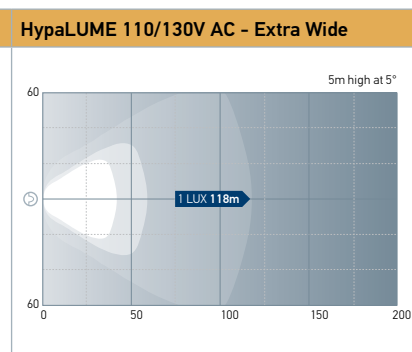
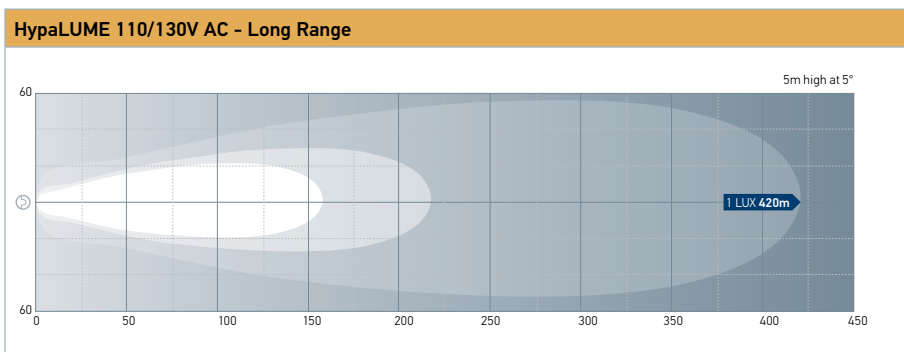
The HypaLUME 110/230V AC has been designed for applications where high output lighting in extreme environments is required. The lamp produces a net output of **28000 lumens** at a voltage input range of **100-240V AC** whilst only consuming **300W**. Comprehensive sealing and anti-corrosion measures have been taken to ensure this lamp with stands the toughest conditions. The premium aluminium housing is corrosion resistant with a non-stick and easy to clean surface coating. The LEDs have a colour temperature of **5700K** to provide a near daylight work environment that is optimal for fatigue avoidance and high alertness.



WORK LAMPS



Supplied with 2.0m of easy plug-in sheathed cable.

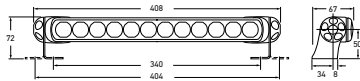


LED BL350 Work Lamp - 240V AC

HELLA's LED BL350 240V AC work lamp is a light weight, slim line lamp available with a white or a black body and in 3 different lens options (narrow, spread, wide spread).

The lamp features a revolutionary ceramic based, non corrosive, thermally conductive housing and a high performance **impact resistance nylon (PA12) lens**. With those properties, the work lamp is ideal for rough outdoor applications, e.g. pool areas, seaside applications, alley ways, car parks etc.

The waterproof, maintenance free and hermetically sealed lamp is also dimmable, either by 0-10V DC dimming control, resistance or pulse width modulation (not supplied). A flexible, adjustable mounting system ensures easy installation to suit a wide range of applications.



1GJ 958 084-001 – Black Base	WIDE SPREAD
1GJ 958 084-101 – Black Base	SPREAD
1GJ 958 084-201 – Black Base	NARROW
1GJ 958 084-011 – White Base	WIDE SPREAD
1GJ 958 084-111 – White Base	SPREAD
1GJ 958 084-211 – White Base	NARROW

Mounting	Upright or Pendant.
Voltage	90 to 305V AC
Power Consumption	Maximum 26W Lamp and LED Driver 0.10A @ 240V AC
Light Output	2200 lumens
Operating Temperature	LED Driver: -35 to 70°C LED Lamp: -40 to 40°C
LED Driver Protection	Short circuit, over current, over voltage, over temperature. IP 67 (Protection against dust and temporary water immersion)
LED Lamp Protection	IP 66 (Protection against dust and high pressure water jets) IP 67 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2m of sheathed multi-core cable between LED lamp and LED Driver, 0.3m of sheathed multi-core cable from LED Driver.
Lens Material	Nylon (PA12)
Compliance	CE AS/NZS 60598.2.1

Note: LED driver must be installed by a licensed electrician.

WORK LAMPS



P/N 1GJ 958 084-001
Wide spread - Black base



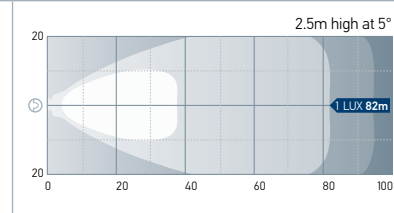
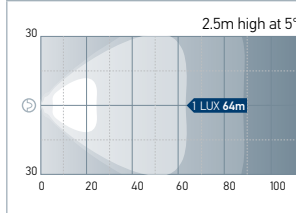
P/N 1GJ 958 084-011
Wide spread - White base



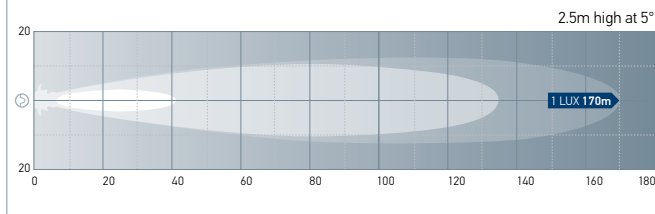
LED Driver



LED BL350 - 240V AC - Wide Spread **LED BL350 - 240V AC - Spread Spread**



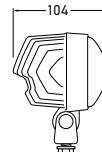
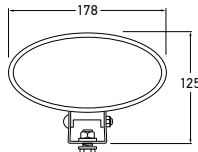
LED BL350 - 240V AC - Wide Narrow



WORK LAMPS



DT Socket



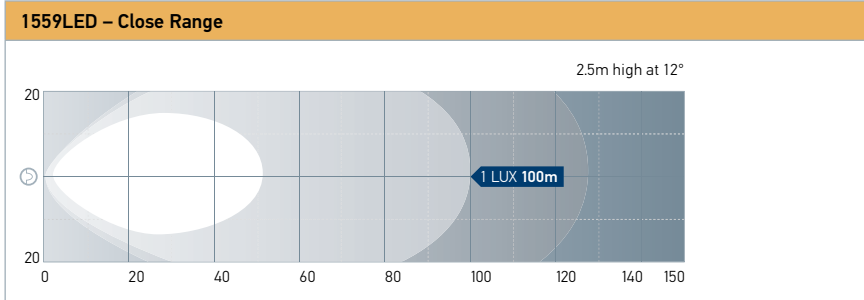
All dimensions in mm.

Oval 90 LED Gen. II Work Lamp

Oval 90 LED Work Lamp featuring **10 high power LEDs** providing **4300 lumens** with a colour temperature of **6500K**. High quality aluminium housing and nylon (PA12) lens. Suitable for close range illumination.



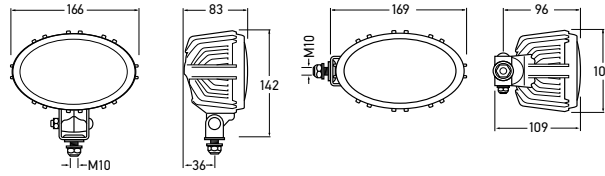
1559LED	1GB 996 486-001	CLOSE RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	75W (12V DC) 65W (24V DC)	
Max. Light Output	4300 lumens	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount ¹
Compliance		



WORK LAMPS

Oval 100 LED Thermo Pro Work Lamps

The HELLA Oval 100 LED Thermo Pro is the latest addition to the Oval 100 work lamp family. This work lamp has an innovative corrosion resistant **thermally conductive plastic housing** with cooling fins on the back to ensure sufficient heat dissipation from the **8 high-power LEDs**. Available in bottom swivel and a side-mounting swivel mounting.

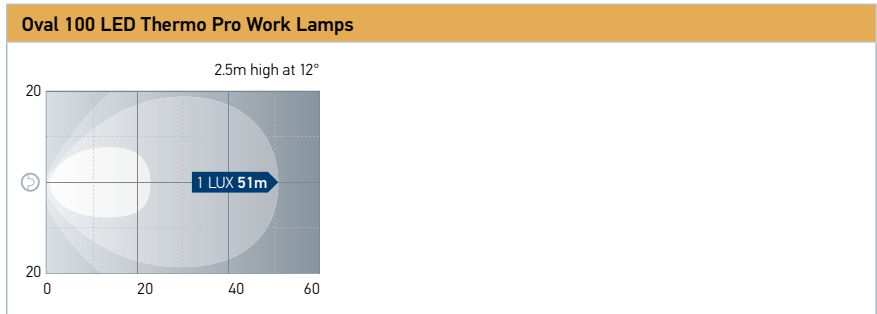


P/N 1568LED - Upright or Pendant, Swivel Base



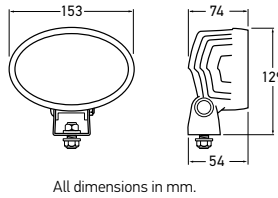
P/N 1568LED-SM - Side Mount , Swivel Base

1568LED	1GA 996 661-501 – Upright or Pendant, Swivel Base
1568LED-SM	1GA 996 661-031 – Side Mount , Swivel Base
Voltage	9 – 33 V DC
Power consumption	25 W
Light output	1700 lumens
Light source	8 High-Power LEDs
Colour temperature	6500 K
Housing material	Thermally conductive plastic
Lens Material	Polycarbonate
Mounting	Upright and side mounting
Connection	Integrated DT socket (Optional 2.0 metre DT Pigtail Loom to be ordered separately)
Protection	Overheating and polarity protection
Protection class	IP 6K9K, IP 6K8
Compliance	ECE-R10,
Weight	660 g
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres



WORK LAMPS

WORK LAMPS



All dimensions in mm.

Oval 100 LED Gen. II Work Lamps

High quality aluminium housing and nylon (PA12) lens. Features **8 high power LEDs** (6500K) providing **4000 lumens**.

1558LED	1GA 996 761-001	CLOSE RANGE
1558LEDLR	1GA 996 761-011	LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	56W (12V DC) 54W (24V DC)	
Max. Light Output	4000 lumens	
Protection	IP6K9K and IP6K8, reverse polarity protection, surge protection, overheating protection.	
Cable Length	Integrated DT Socket. (Optional 2.0 metre DT Pigtail Loom to be ordered separately)	
Housing	Aluminium	
Lens Material	Nylon (PA12)	
Spare Part	9.1551LED.06	DT Pigtail Loom, 2 metres
Accessory	9.1517.08	Universal Pedestal Mount ¹
Compliance		



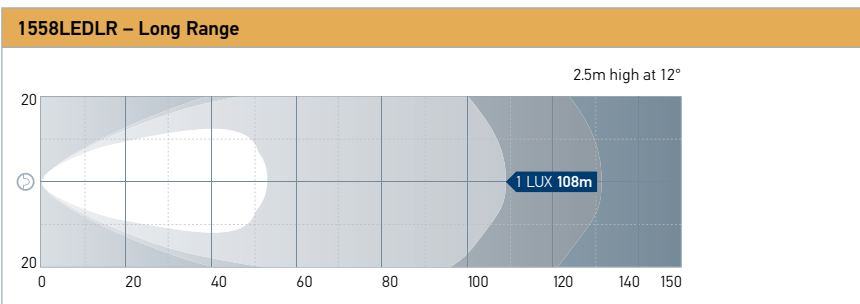
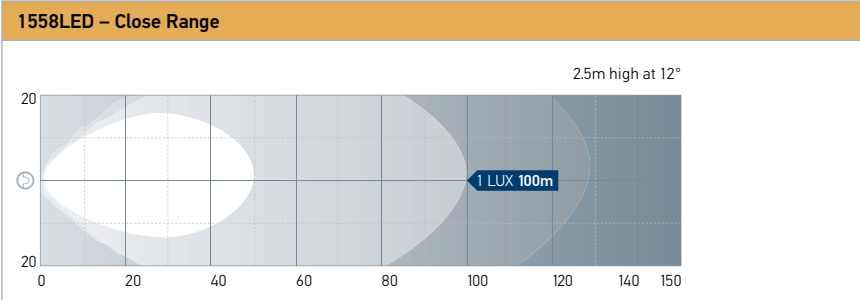
P/N 1558LED



P/N 1558LEDLR



¹ 9.1517.08

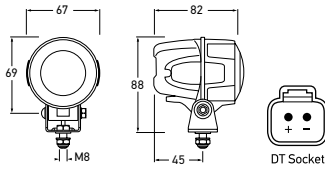


WORK LAMPS

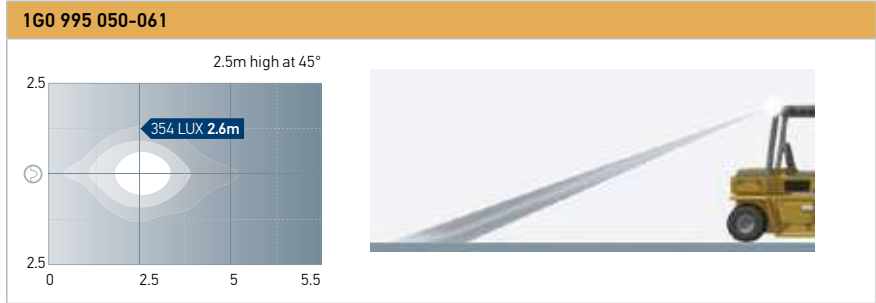
The Module 50 LED Blue spot headlamp

The Module 50 LED Blue spot headlamp is designed as a warning light to optically warn other vehicles or passers-by of an approaching forklift – increasing occupational safety and helping to prevent accidents.

The special lens optic focuses the **blue LED light** beam to project a circle-shaped warning point on the ground.



1G0 995 050-061 - Blue Spot	
Voltage	9 – 52 V DC (Suitable for 48V DC forklift operating systems)
Power consumption	15 W
Light source	1 Coloured (blue) High-Power LED
Housing material	Aluminium Die cast
Mounting	Pendant and upright mounting
Connection	Integrated DT Socket. DT Pigtail Loom 2.0 metres to be ordered separately 9.1551LED.06 (optional).
Protection	Overheating and polarity reversal protection
Protection class	IP 6K9K, IP 6K8
Type approval	(E) ECE-R10
Housing	Aluminium
Lens	Nylon (PA12)
Weight	340 g



RFCCommSafe

LED Lighting Products with Superior Electromagnetic Compatibility



DuraLED WL200

DuraLED WL1300

AS3000 Long Range

AS3000 Close Range

HELLA LED Work Lamps – quality with performance

Electromagnetic Compatibility (EMC) is an increasingly relevant safety concern for many emergency, mining and industrial applications. As electronic devices such as LED lamps become more common, so does the risk of unintended electromagnetic interference (EMI) from inferior lamps that can have adverse effects on radios and other communication equipment.

HELLA RFCCommSafe lamps are designed to go well beyond the regulatory requirements as defined in international standards such as EN 55015, CISPR 15, CISPR 25 or relevant UNECE R10 Standards.

Call 1800 061 729 for your nearest HELLA stockist.



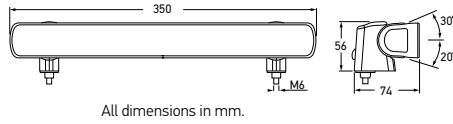
Technology with Vision



BL350 LED Work Lamps

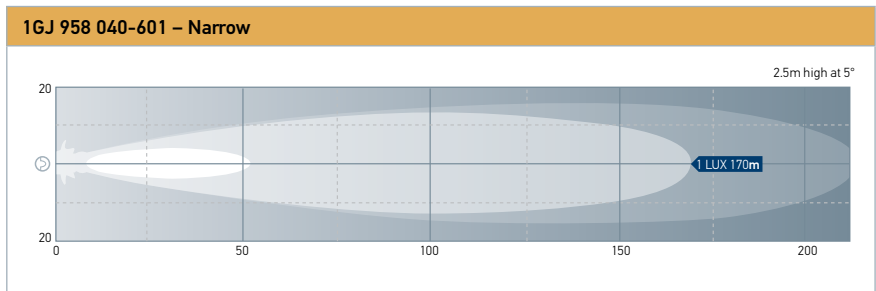
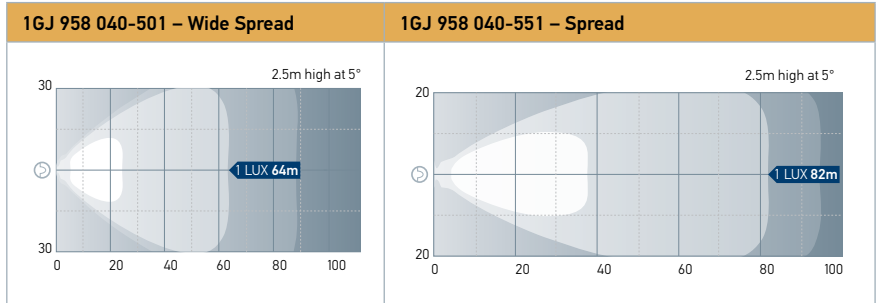
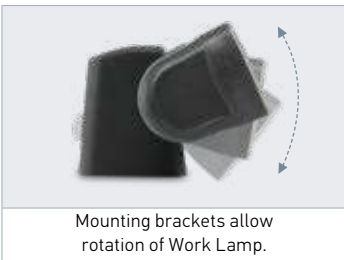
The BL350 LED Work Lamp incorporates the latest technology to offer a powerful, durable lighting solution for a multitude of applications. Featuring energy efficient Multivolt technology, this Work Lamp will appeal to applications where energy efficiency and reliability are a must. These lamps offer a formidable net light output of **2200 lumens**.

Designed with Fit and Forget durability in mind, the BL350 LED Work Lamp features a highly impact-resistant lens made of nylon (PA12), a crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as a technologically advanced thermally conductive non-metal housing.

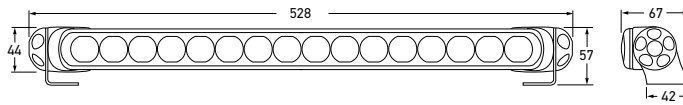


- Dual Intensity: Switch Control
- 12 LED
- FIT & FORGET BY DESIGN
- Power Supply: MULTI VOLT
- Housing: CORROSION PROOF
- Lens Material: GMD
- Harsh UV: UV RESISTANT

1GJ 958 040-501	WIDE SPREAD
1GJ 958 040-551	SPREAD
1GJ 958 040-601	NARROW
Mounting	Upright or Pendant.
Voltage	Multivolt (9-33V DC)
Power Consumption	25W
Max. Light Output	2200 lumens
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	BL350 2.5 metres of tinned multi-core cable
Housing	Thermally Conductive Plastic
Lens Material	Nylon (PA12)
Compliance	



WORK LAMPS



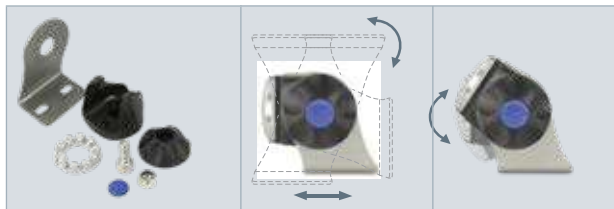
**LED Light Bar 470
- Combi Lamp HD Bracket**

The LED Light Bar 470 Combi is a unique work lamp offering three light options: close range, long range or combined - all in a single light bar. The lamp is a great addition to any Ute, ATV or off-road vehicle.

Only 1kg of weight means less stress on mounting locations, the low profile design will not restrict cooling airflow when fitted to the front of a vehicle - which can be a problem with larger lights. Don't be fooled by its size though, this light bar certainly punches above its weight with its long distance and spread light output. Multivolt circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W. Any input between 9 to 33 volts will give optimum brightness.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens. The Combi Lamp is the natural choice when exceptional durability and long term reliability in demanding environments is needed.

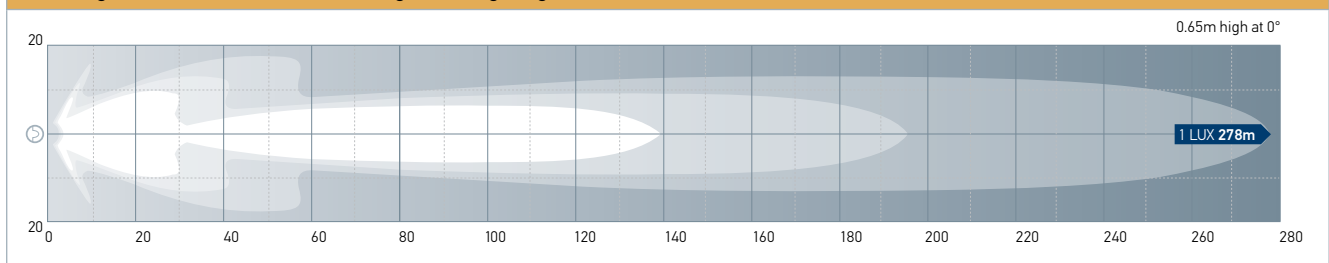
1599HD	1GA 958 130-431 – (Close Range and Long Range)	COMBI
Mounting	Upright or Pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	Combined: 36W Close/Long Range: 18W	
Maximum Luminous Intensity	77,000 candela	
Max. Light Output	2200 lumens	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of tinned multi-core cable.	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Accessories	8032 Number plate bracket light bar 470 - Single Lamp 8033 Number plate bracket light bar 470 - Twin lamp 8HG 958 128-811 HD double mount stainless steel feet (one pair) 8HS 958 139-071 HD single spare end bracket kit 8XS 958 337-021 LED Light Bar - Clear protective cover 8XS 958 337-031 LED Light Bar - Amber protective cover 8XS 958 337-111 LED Light Bar - Protective cover	
Compliance		
Contents	1 x LED Light Bar 470 2 x HD mounting brackets 1 x Instruction booklet	



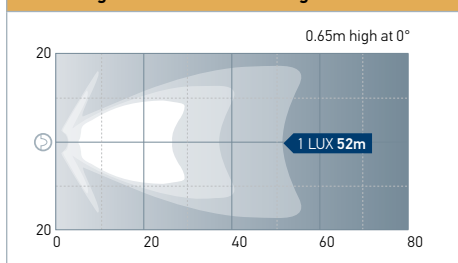
HD single mounting bracket - Disassembled view Mounting brackets can be positioned to suit most vehicle installations.



Combi Light Bar 470 - Combined (Close Range and Long Range)



Combi Light Bar 470 - Close Range

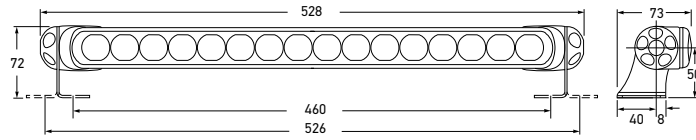


BL470 LED Work Lamps

The BL470 work lamp comes in two different beam patterns - close range or long range, making it a great work lamp for an array of applications like agriculture and construction.

It is a high performance lamp with a light output of **2800 lumens** for either spread or distance whilst only consuming **36W**. Multivolt circuitry means the lamp can be used with both 12V or 24V DC systems, whilst only consuming 36W on high or 4W on low. Any input between 9 to 33 volts will give optimum brightness. The dual function level (100% and 10%) is also handy for reducing power consumption during long term use, or when operating on battery power.

The adjustable mounting system ensures for easy installation and flexibility for any orientation. Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens, the BL470 is the natural choice when exceptional durability and long term reliability in demanding environments is needed.



1GJ 958 130-621		CLOSE RANGE
1GJ 958 130-651		LONG RANGE
Mounting	Upright or Pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	High: 36W Low: 4W	
Actual Light Output	High: 2800 lumens Low: 280 lumens	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Supplied with 2.5m of sheathed multi-core cable.	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Spare Parts	8HG 958 128-811	HD double mount stainless steel feet (one pair)
Compliance	CE	

WORK LAMPS



P/N 1GJ 958 130-621
Close Range

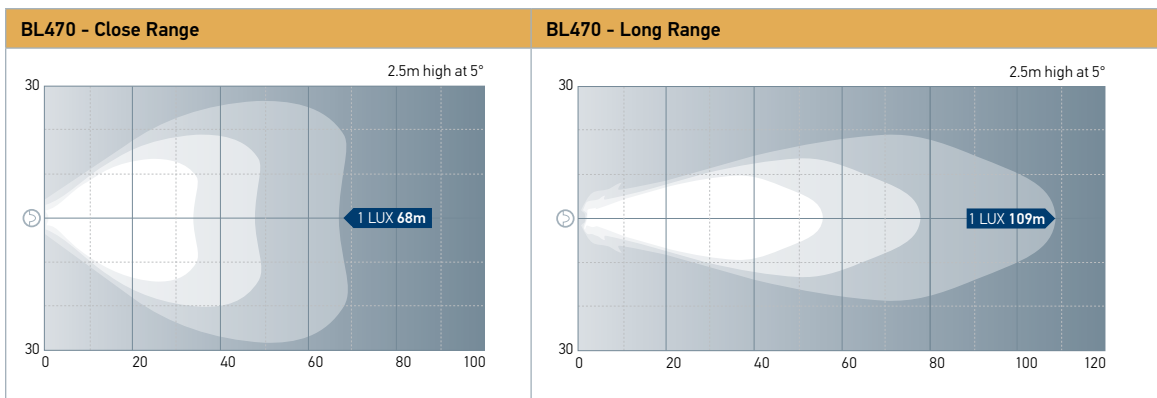


P/N 1GJ 958 130-651
Long Range

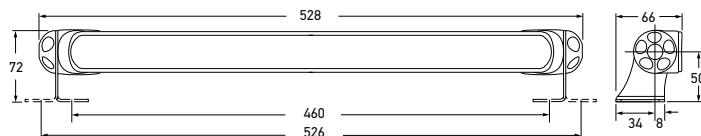


8HG 958 128-811
HD double mount
stainless steel feet

HD stainless steel mounting
brackets allow 360° rotation
of work lamp.



WORK LAMPS



1GJ 958 130-521		DIFFUSE FLOOD
Mounting	Upright or Pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	High: 36W Low: 4W	
Actual Light Output	3600 lumens	
Protection	Reverse polarity and transient spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Supplied with 2.5m of sheathed multi-core cable.	
Lens Material	High impact and chemical resistant Nylon (PA12) lens	
Spare Parts	8HG 958 128-811 HD double mount stainless steel feet (one pair)	
Compliance	CE	

BL470 LED Work Lamp - Diffuse Flood

The BL470 LED work lamp featuring a unique diffuse flood lens with a powerful light output of **3600 lumens** while only consuming **36W**.

The new lamp is ideal for illuminating decks, garages, workshops, trailers, caravans and other close range applications where large amounts of light are needed. The ultra-smooth spread has no harsh borders or hotspots, therefore reducing eye strain and fatigue.

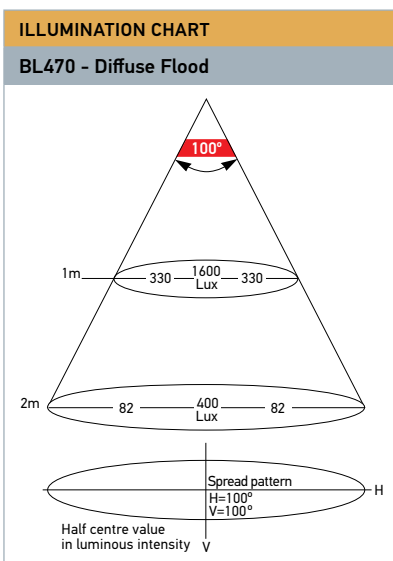
Providing unmatched corrosion resistance due to an innovative thermally conductive polymer housing, and the toughness of a UV, chemical and impact resistant nylon (PA12) lens, the BL470 is the natural choice when exceptional durability and long term reliability in demanding environments are needed.

The new work light features Multivolt™ circuitry, operating between 9 to 33V, and can therefore be used with 12V or 24V DC supply. The dual function level (100% and 10%) is also handy for reducing power consumption during long term use. Designed with Fit and Forget durability in mind, the completely sealed BL470 is covered by a 5 year warranty.



HD stainless steel mounting brackets allow 360° rotation of work lamp.

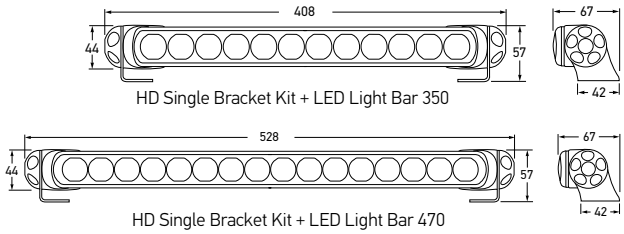
8HG 958 128-811 HD double mount stainless steel feet



WORK LAMPS

**LED Light Bar
- HD Single Bracket Kit**

These easy to install heavy bracket kits made to suit the LED Light Bar range and can be mounted upright or pendant to accommodate most vehicle installations. The smooth brackets simply clip onto the ends of the Light Bar. The nuts, bolts and mounting brackets are made from marine grade 316 stainless steel and come with anti-theft screw caps.

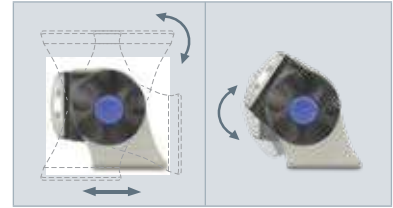


8HG 958 139-841

- | | | |
|--------------------------------------|--|----------------------|
| Kit Contents:
(Lamp not included) | 2 x Stainless Steel Mounting Feet | 2 x Friction Washers |
| | 2 x Stainless Steel M8 x 20mm Cap Screws | 2 x End Clamps |
| | 2 x Stainless Steel M8 Nylon Lock Nuts | 2 x Screw Caps |
| | 2 x End Adaptors | |

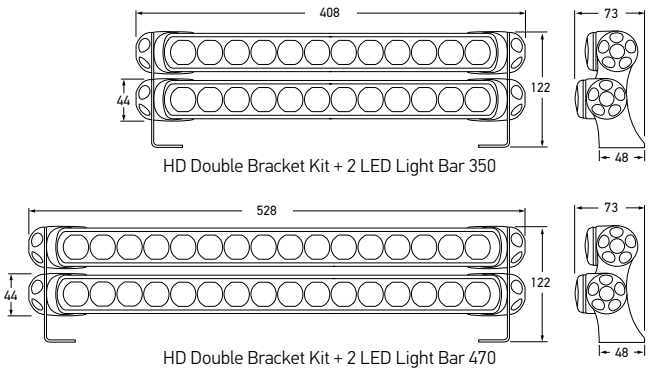


HD Single Bracket Kit + LED Light Bar 350



Mounting brackets can be positioned to suit most vehicle installations.

**LED Light Bar
- HD Double Bracket Kit**

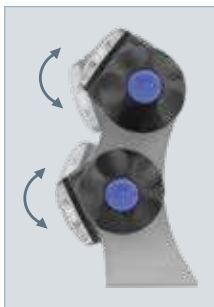


8HG 958 139-851

- | | | |
|---------------------------------------|--|----------------------|
| Kit Contents:
(Lamps not included) | 2 x Stainless Steel Double Mounting Feet | 4 x Friction Washers |
| | 4 x Stainless Steel M8 x 20mm Cap Screws | 4 x End Clamps |
| | 4 x Stainless Steel M8 Nylon Lock Nuts | 4 x Screw Caps |
| | 4 x End Adaptors | |



HD Double Bracket Kit + 2 x LED Light Bar 350

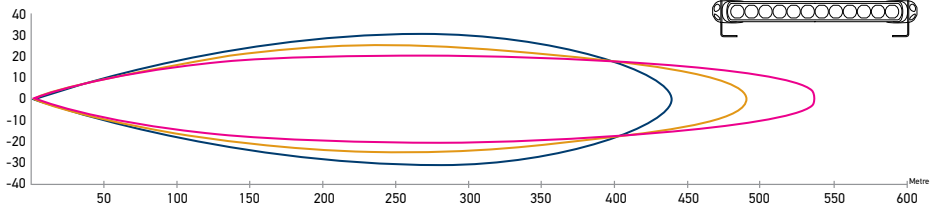


Mounting brackets allow rotation of Light Bar.

Beam Patterns - Beam distance (m)

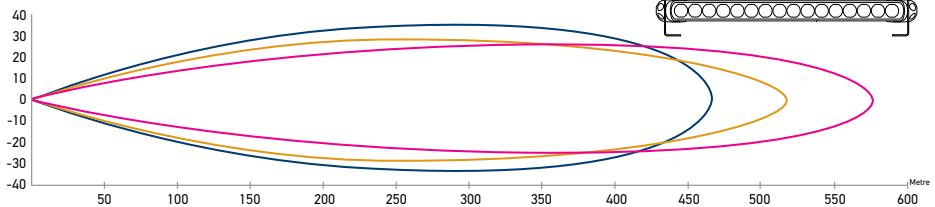
LED LIGHT BAR 350

- 2 x 1395HD ■ 1 lux 1395HD + 1396HD ■ 1 lux 2 x 1396HD ■ 1 lux



LED LIGHT BAR 470

- 2 x 1397HD ■ 1 lux 1397HD + 1398HD ■ 1 lux 2 x 1398HD ■ 1 lux



WORK LAMPS

8HG 958 128-811	Suits 350 and 470 LED Light Bars
Includes	Double Stainless Steel Mounting Feet (One pair) to suit LED Light Bar

Double Stainless Steel Mounting Feet



8HG 958 139-071	
Kit Includes	<ul style="list-style-type: none"> 1 x Stainless Steel M8 x 20mm Cap Screw 1 x Stainless Steel M8 Nylon Lock Nut 1 x End Adaptor 1 x Friction Washer 1 x End Clamp 1 x Screw Cap

Single Spare Bracket Kit



P/N 8HG 958 139-071
Single spare bracket for one end (no mounting feet)

5222	Wiring Kit - 12V DC Connects one Light Bar only
Content	<ul style="list-style-type: none"> 1 x 12V DV Relay 1 x Blade fuse holder with 15A Fuse 1 x Pre-terminated loom and additional terminals for LED Bar connection * Connects one Light Bar only

LED Bar Wiring Kit - 12V DC

LED Light Bar Wiring Kit supplied with all parts required for installation and detailed instructions.



LED Light Bar Protective Covers

Whether you want to protect your light bar or make your vehicle look unique, we have the light covers you need for the job.

The amber and black covers give your vehicle a distinctive appearance that's sure to get attention, the amber cover is great during foggy conditions as it reduces glare and reflection.

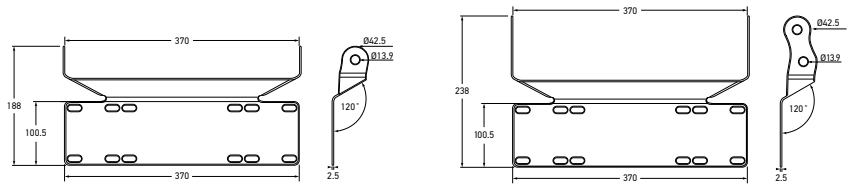
8XS 958 336-021	LED Light Bar 350 Range	CLEAR
8XS 958 336-031	LED Light Bar 350 Range	AMBER
8XS 958 336-111	LED Light Bar 350 Range	BLACK
8XS 958 337-021	LED Light Bar 470 Range	CLEAR
8XS 958 337-031	LED Light Bar 470 Range	AMBER
8XS 958 337-111	LED Light Bar 470 Range	BLACK



LED Light Bar Number Plate Brackets

The sleek and clean number plate bracket has been designed for easy and quick installation.

Depending on your vehicle the light bar can be mounted upright or pendant.



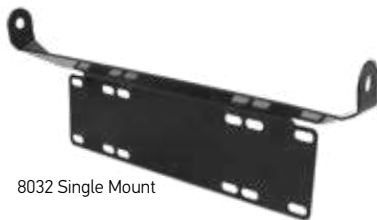
8030 Single Mount



8031 Twin Mount

NUMBER PLATE BRACKET LIGHT BAR 350	
8030	846 014 075-011 – Single Mount
8031	846 014 075-021 – Twin Mount

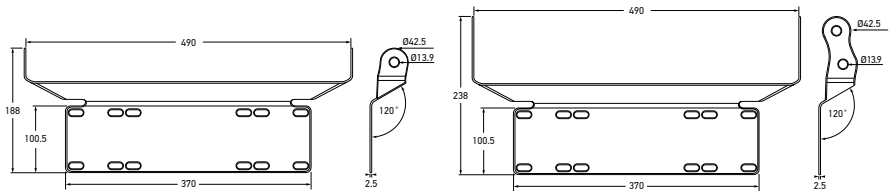
To suit the LED Light Bar 350 Work Lamp Range.
Suits standard Australian, New Zealand and European number plates.



8032 Single Mount



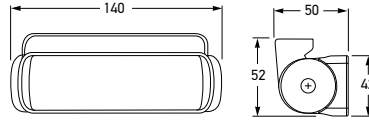
8033 Twin Mount



NUMBER PLATE BRACKET LIGHT BAR 470	
8032	846 014 075-031 – Single Mount
8033	846 014 075-041 – Twin Mount

To suit the LED Light Bar 470 Work Lamp Range.
Suits standard Australian, New Zealand and European number plates.

WORK LAMPS



All dimensions in mm.

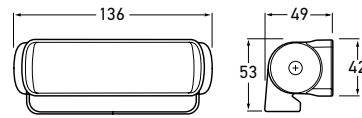
98067038	1GA 980 670-382 – 12V DC
98067062	1GA 980 670-622 – 24V DC
Mounting	Upright or Pendant.
Voltage	12V DC or 24V DC
Power Consumption	4W
Max. Light Output	150 lumens
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	2.5 metres
Lens Material	Nylon (PA12)
Housing	Plastic
Compliance	

DuraLED WL200 RFCCommSafe Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Hermetically sealed against dust and moisture. Featuring a tough, chemical resistant nylon (PA12) lens.



WORK LAMPS



All dimensions in mm.

98067020	2JA 980 670-202	NARROW BEAM
98067030	2JA 980 670-302	SPREAD BEAM
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	< 3W	
Max. Light Output	200 lumens	
Protection	Fully sealed against dust and moisture to IP67.	
Cable Length	2.5 metres	
Lens Material	Nylon (PA12)	
Housing	Plastic	
Compliance		

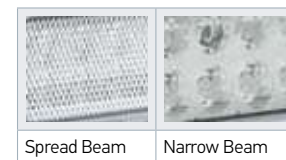
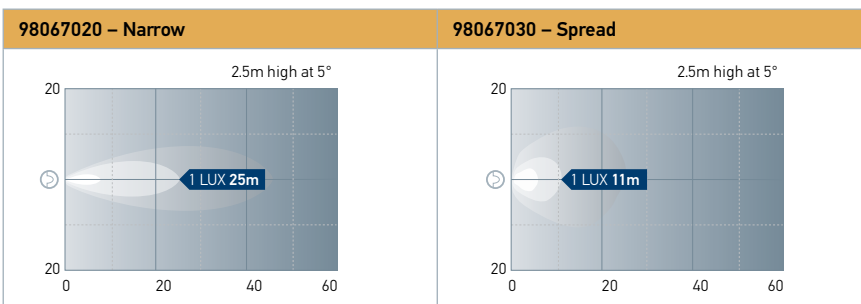
DuraLED WL200 Work Lamps

High-intensity LED Work Lamps suitable for interior or exterior general and work area lighting rated at **200 lumens**.

Features compact and lightweight design (only 250g including cable). Equipped with **ultra-durable nylon (PA12) lens** for extreme impact, UV, chemical and stress resistance, and a sturdy stainless-steel mounting bracket, which secures the lamp from both sides whilst allowing easy adjustment of the vertical light beam angle.



P/N 98067020

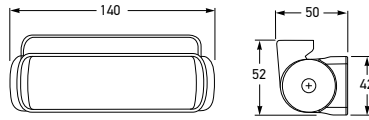


DuraLED WL550
LED Work Lamps

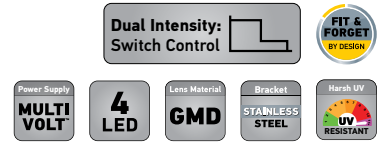
LED Universal Work Lamps with low profile stainless steel bracket. Lamps may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, **chemical resistant nylon (PA12) lens**. Option of three light patterns, narrow, spread or wide spread.



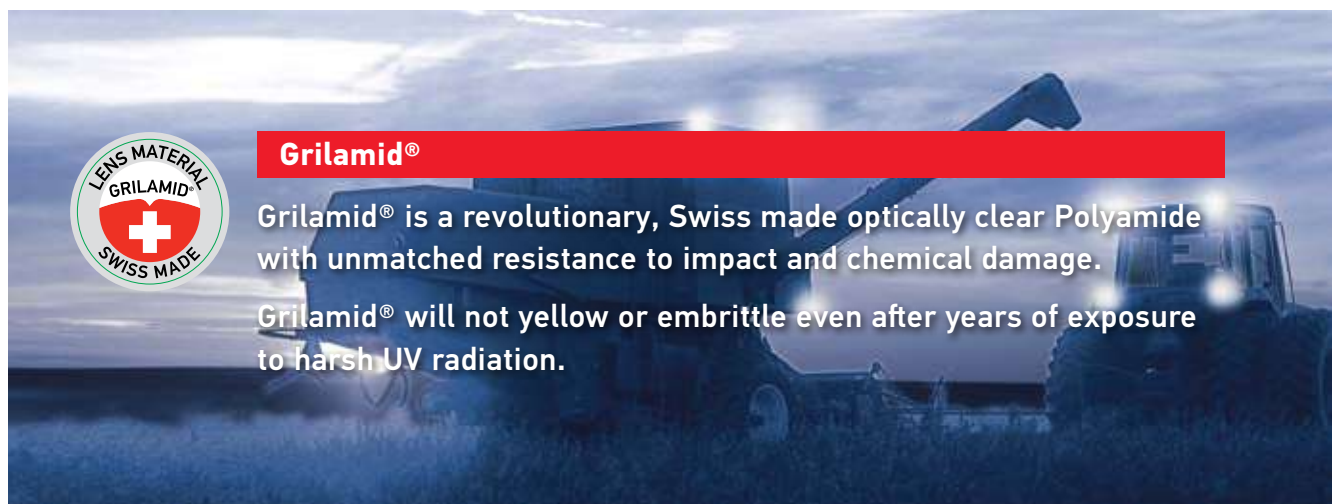
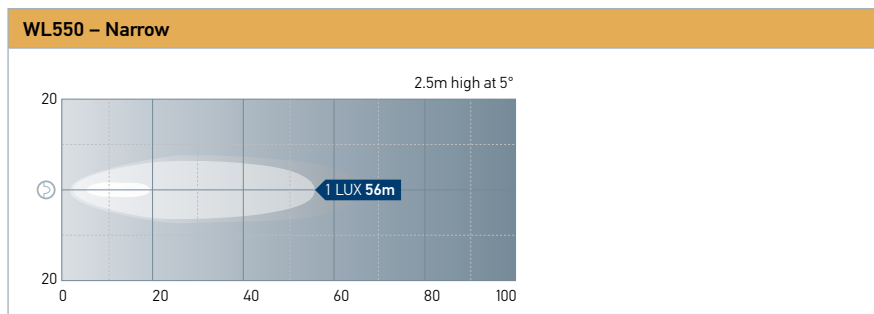
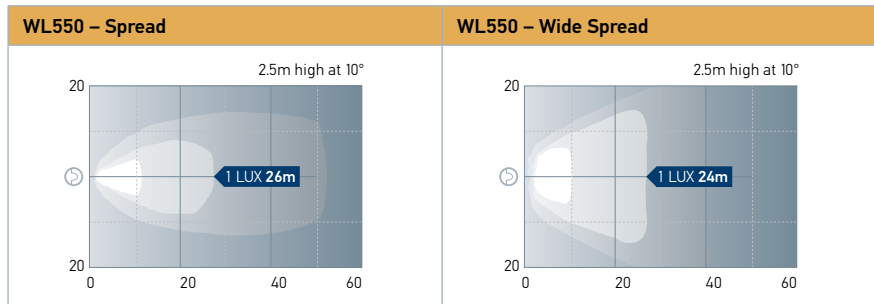
P/N 98057300



All dimensions in mm.



98057330	1GA 980 573-301	NARROW
98057310	1GA 980 573-101	SPREAD
98057300	1GA 980 573-001	WIDE SPREAD
Mounting	Upright or Pendant.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	7W	
Max. Light Output	550 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Housing	Thermally Conductive Plastic	
Compliance		

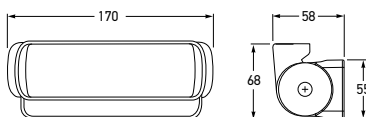
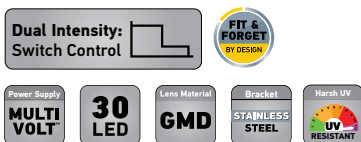


Grilamid®

Grilamid® is a revolutionary, Swiss made optically clear Polyamide with unmatched resistance to impact and chemical damage.

Grilamid® will not yellow or embrittle even after years of exposure to harsh UV radiation.

WORK LAMPS



All dimensions in mm.

98095023	1GD 980 950-231 – Long Range	WHITE
98095033	1GD 980 950-331 – Long Range	WARM WHITE
98095003	1GD 980 950-031 – Close Range	WHITE
98095014	1GD 980 950-141 – Close Range	WARM WHITE

Mounting	Upright or Pendant.
Voltage	Multivolt (9-33V DC)
Power Consumption	High intensity mode: 12W (1A@12V/0.50A@24V) Low intensity mode: 2W (0.17A@12V/0.08A@24V)
Max. Light Output	750 lumens – White 650 lumens – Warm White
Mounting	Upright or Pendant.
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	2.5 metres
Lens Material	Nylon (PA12)
Housing	Thermally Conductive Plastic
Compliance	

DuraLED WL750 LED Work Lamps

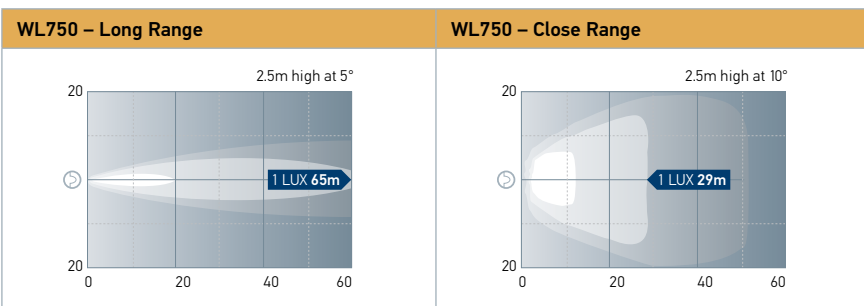
Featuring an integrated dual intensity circuit, a high level of spike protection and energy efficient Multivolt technology, the innovative DuraLED WL750 will appeal for applications where energy efficiency and reliability is a must. Technologically advanced thermally conductive non-metal housing.



Warm White
98095014
98095033



White
98095023
98095003



WORK LAMPS

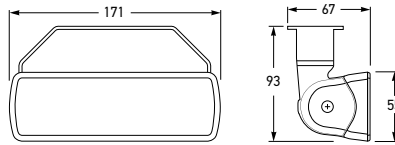
DuraLED WL1300 RFCCommSafe Work Lamps – 24V DC

LED Work Lamp featuring 14 high performance LEDs will appeal for applications where energy efficiency and reliability is a must.

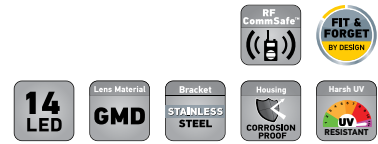
Features a tough, chemical-resistant lens made from nylon (PA12) – a highly impact-resistant, Swiss-made, crystal-clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as, technologically advanced thermally conductive non-metal housing.



P/N 98074060

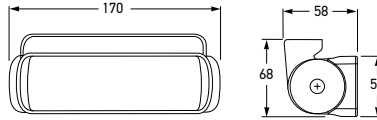


All dimensions in mm.



98074025	1GA 980 740-251	LONG RANGE
98074060	1GA 980 740-601	CLOSE RANGE
98074051	1GA 980 740-511	FLOOD
Mounting	Stainless-steel bracket for Upright or Pendant mounting.	
Voltage	24V DC	
Power Consumption	14W	
Max. Light Output	900 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	2.5 metres	
Lens Material	Nylon (PA12)	
Housing	Thermally Conductive Plastic	
Compliance		

WORK LAMPS



All dimensions in mm.

98074002	1GD 980 740-021	WIDE SPREAD
98074032	1GD 980 740-321	SPREAD
98074022	1GD 980 740-221	NARROW

Mounting	Stainless-steel bracket for Upright or Pendant mounting.
Voltage	Multivolt (9-33V DC)
Power Consumption	High power 18W Low power 2W
Max. Light Output	1300 lumens
Protection	Reverse polarity protection, surge protection, overheating protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	2.5 metres
Lens Material	Nylon (PA12)
Housing	Thermally Conductive Plastic
Compliance	

DuraLED WL1300 LED Work Lamps – White

These lamps offer a formidable net light output of **1300 lumens**. Designed with 'Fit and Forget' durability in mind, DuraLED WL1300 features:

- Integrated dual intensity light output circuit;
- A high level of spike protection;
- **High impact-resistant nylon (PA12) lens** – a crystal clear polyamide with superior tolerance to chemical and UV exposure;
- Technologically advanced thermally conductive non-metal housing;
- Low profile stainless steel bracket for adjustable upright or pendant mounting.

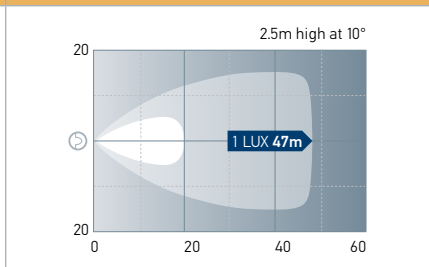
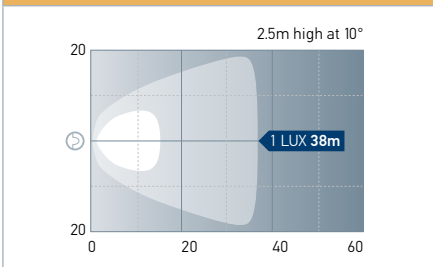


P/N 98074002

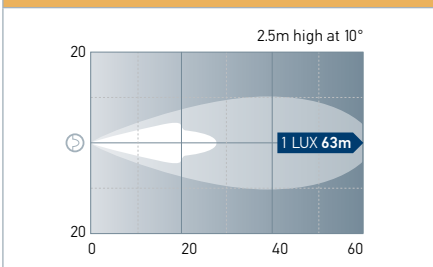


WORK LAMPS

98074002 – Wide Spread 98074032 – Spread



98074022 – Narrow

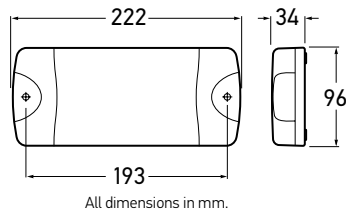


DuraLED 1000 Spread Beam Work Lamp

The universal, high intensity and extremely energy efficient DuraLED 1000 Spread Beam Work Lamp is rated at **1000 lumens**.

Magnets simply snap the light to any metallic surface and the lamp can be powered from cigarette lighter or DIN plug.

The lens is manufactured from ultra durable nylon (PA12), a revolutionary high performance clear polyamide for extreme impact, UV, chemical and stress resistance.

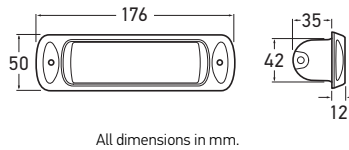


HM1550CIG	1GA 910 057-001	SPREAD BEAM
Mounting	Universal mounting via neodymium magnets.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	< 12W	
Max. Light Output	1000 lumens	
Protection	IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	1 metre extension cable extends to 8 metres.	
Lens Material	Nylon (PA12)	
Compliance		

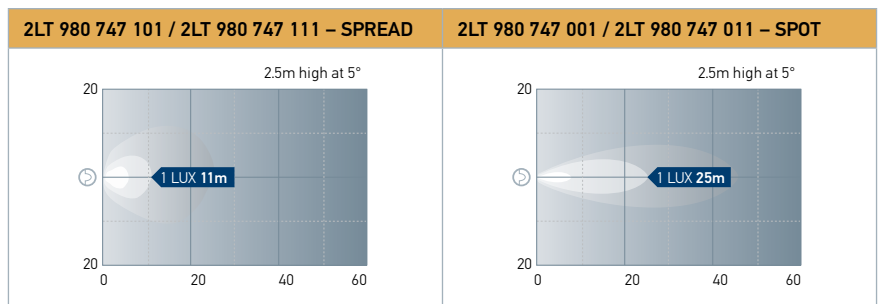
WORK LAMPS

SEAHAWK LED Work Lamps

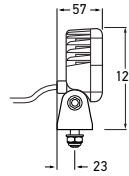
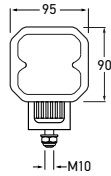
A new class of ultra efficient, compact and lightweight LED lamps. Rated at **240 lumens**. Suitable for recess mounting only.



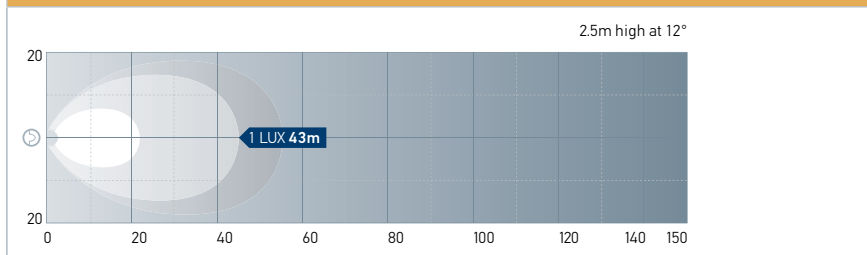
2LT 980 747-101	SPREAD BEAM	■ BLACK
2LT 980 747-111	SPREAD BEAM	■ WHITE
2LT 980 747-001	SPOT BEAM	■ BLACK
2LT 980 747-011	SPOT BEAM	■ WHITE
Mounting	Recess mounting.	
Voltage	Multivolt (9-33V DC)	
Power Consumption	< 3W	
Max. Light Output	240 lumens	
Protection	IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	2.5 metres	
Lens Material	Nylon (PA12)	
Housing	Plastic	
Compliance		



WORK LAMPS



1563LED-RE	2ZR 996 284-501
Voltage	Multivolt 9-33V DC
Power Consumption	15 W
Max. Light Output	1000 lumens
Colour Temperature	6500 K
Temperature Range	-40°C to 60°C
Protection	Overheating and polarity reversal protection
Protection Class	IP6K7, IP6K9K
Lens	PC Polycarbonate
Housing	Thermally Conductive Plastic
Cable Length	2.0 Metres
Mounting	Pendant and upright mounting
Compliance	(E) ECE-R10, ECE-R23, (E) 00 4576, ADR 1/00

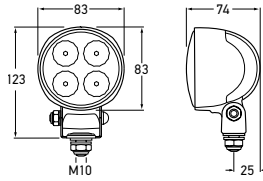
1563LED-RE**Q90 Compact LED Reversing Lamp
ADR Compliant**

Combining a strong light output with practical design, the Q90 compact LED is the ideal LED reversing spotlamp. **Four high-power LEDs** produce a light output of **1000 lumens**, which a reflector directs homogeneously across a wide area behind the vehicle. This headlamp is ideally suitable for mounting to the rear of the vehicle so that it can be manoeuvred safely even at night.

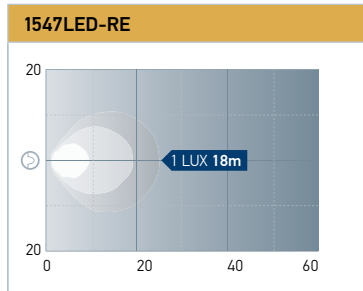


Modul 70 LED Gen. III Reverse Lamp, ADR Compliant

The new Module 70 LED was developed especially for withstanding the tough conditions of a rear driving lamp. The low mounting position on rear bumpers requires a high water, salt spray and impact resistance.



1547LED-RE	2ZR 996 376-091
Operating voltage	12/24 V DC
Power consumption	13W
Light output	800 lumens
Illumination pattern	extra wide beam
Light source	4 High Power LEDs
Protection class	IP 6K9K I IP67
Housing	Aluminium corrosafe powder coated grey
Lens	Glass
Cable Length	2 Metres
Compliance	ECE R1 0, ECE R23, ADR 1/00



WORK LAMPS

REVERSING LAMPS
FIND MORE IN THE WORK LAMPS SECTION.

POWER BEAM 1000
SEE PAGE 211

MODUL 70 LED GEN.III
SEE PAGE 210

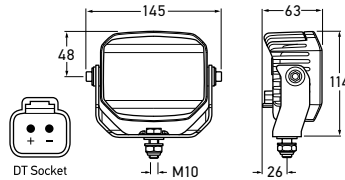
Q90 COMPACT LED
SEE PAGE 209

ULTRA BEAM
SEE PAGE 214

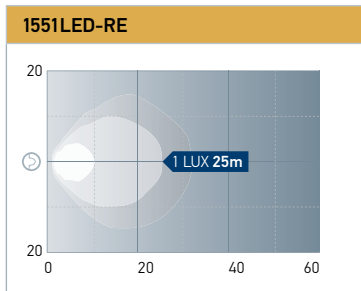
COMET 450
SEE PAGE 220



WORK LAMPS



1551LED-RE	2ZR 996 188-121
Operating voltage/ Rated voltage	9 – 33 V DC
Recommended angle of inclination	25°
Light source type	6 high-power LEDs
Power consumption	14 W
Light output	850 lm
Colour temperature	6500 K
Protection class	IP 6K9K and IP 6K8
Compliance	ECE-R10, ECE-R23, ADR 1/00
Housing	Aluminium, CoroSafe, powder-coated grey
Lens	Nylon
Cable Length	Integrated DT Socket (Optional 2 metre DT Pigtail Loom to be ordered separately)
Spare Part	9.1551LED.06 DT Pigtail Loom, 2 metres



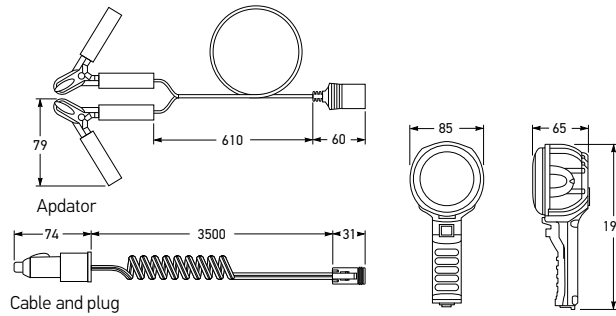
Power Beam 1000 Reversing Lamp, ADR Compliant

Combining a strong light output with practical design, the Power Beam 1000 is the ideal LED reversing spotlamp. This lamp was designed with compact dimensions and a flexible surrounding bracket so that it could be used anywhere.



LED Hand Held Spot Lamps

The LED hand held spot lamp only uses 1/3 of the power consumption of the 1520. It has a compact size and light weight, and is comfortable to hold even for long periods. The LED spot lamp comes with a spiral plug-in cable (which can stretch up to 3.5m) and a DT connector, which allows a custom cable to be fitted to suit your own requirements.



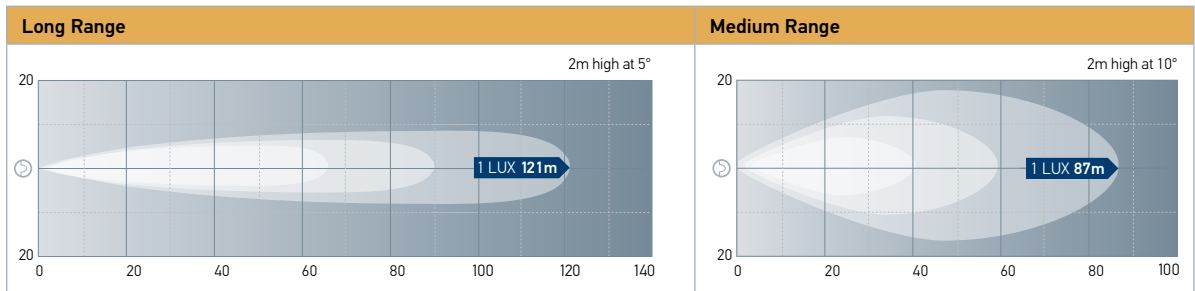
1520LED	2XM 958 372-001	LONG RANGE
1521LED	2XM 958 373-001	MEDIUM RANGE
Voltage	10-16 V	
Power Consumption	35W	
Light Output	1350 lumens	
Compliance		



Battery clips to power socket adaptor (Supplied)

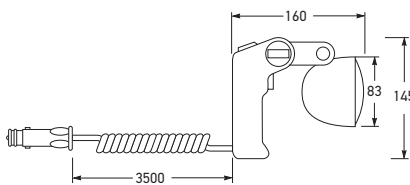
HELLA Bag (Supplied)

WORK LAMPS



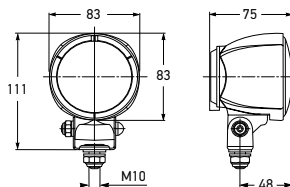
Modul 70 Gen. IV LED Hand Held Search Lamps

Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.



1H0 996 476-502	LONG RANGE
1H0 996 476-512	CLOSE RANGE
Voltage	12-24 V DC
Power Consumption	30W
Light Output	2500 lumens
Housing	Premium Corosafe coating
Cable	Spiral cable with cigarette lighter plug (extended length 3500mm)
Compliance	IP6K9K, IP6K8

WORK LAMPS

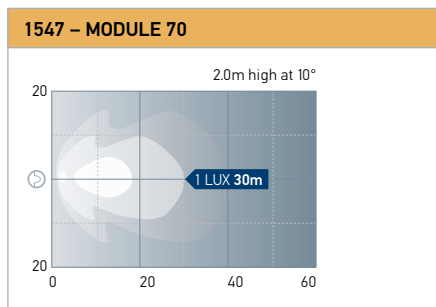


All dimensions in mm.

MODULE 70 SERIES
Close Range

Compact Halogen Work Lamp with a Free-Form (FF) brilliant round reflector. The non-patterned lens reduces light scatter and provides close range uniform illumination of the work area. Reflector made from die-cast aluminium. The lamp's ingenious bracket design allows it to be swivelled 360°, as well as the normal lateral adjustment.

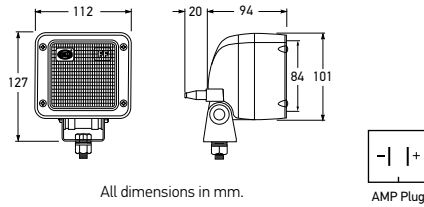
1547	1G0 996 176-001	UPRIGHT MOUNT
Mounting	P/Ns 1547 suitable for upright mounting with M10 fixing screw.	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) (Globe to be ordered separately) 24V H3 (YC2470) (Globe to be ordered separately)	
Protection	IP 5K9K (Protection against dust and high-pressure/steam jet cleaning)	
Accessories	HM70PR Pipe Mount Tube Attachment (rotating) ① HM70PI Pipe Mount Tube Attachment ② 9.HM70BR Module 70 Stainless-steel Bracket	
Not suitable for 100W globes.		



WORK LAMPS

Ultra Beam Series – Close Range

Halogen Work Lamp with Free-Form (FF) reflector for uniform close or long range illumination. Made of die-cast aluminium. Glass lens bonded with reflector to be dust and moisture-proof. Shock-proof plastic housing. External AMP wiring connection.



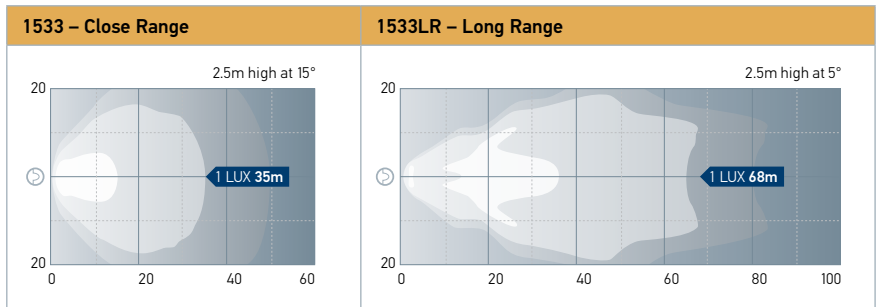
P/N 1533



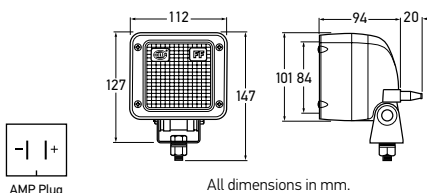
P/N 1533LR

1533	1GA 007 506-001	CLOSE RANGE
1533LR	1GA 997 506-022	LONG RANGE
Mounting	Upright, side or pendant mounting through swivelling the lamp unit 90°. U-shape four-point fixing bracket with M10 screw for mounting on horizontal and vertical surfaces.	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 YC1255 (Globe ordered separately) 24V H3 YC2470 (Globe ordered separately)	
Protection	IP 6K4K (Protection against dust and water splash) IP X9K (Protection against high-pressure jets)	
Spare Part	1533: 9.1533.01 Insert	
Accessories	HM8158 Clear Protective Cover ① HM8158AMBER Amber Clear Protective Cover ② 9.6008.05 Rubber Boot for AMP Connection ③ 9.6008.06 Wiring Loom for AMP Connection – 2 metres ④	

Not suitable for 100W globes.



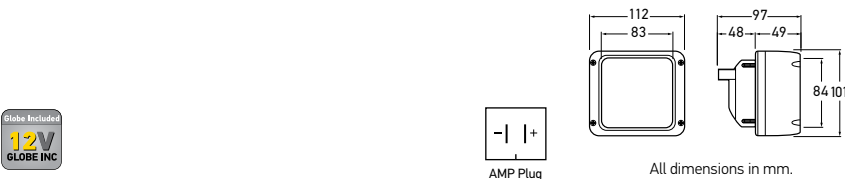
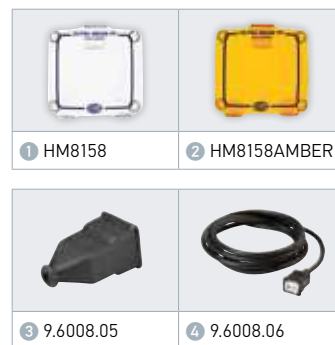
WORK LAMPS



2833	1GA 998 517-001	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright, side or pendant mounting on horizontal or vertical surfaces. Stainless steel bracket and screws included.	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.1533.01	Insert
Accessories	HM8158 HM8158AMBER 9.6008.05 9.6008.06	Clear Protective Cover ① Amber Clear Protective Cover ② Rubber Boot for AMP Connection ③ Wiring Loom for AMP Connection – 2 metres ④
Not suitable for 100W globes.		

**FF Single Beam
– Close Range, White**

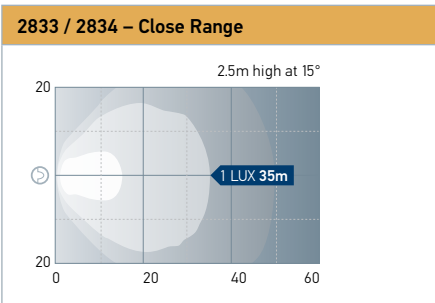
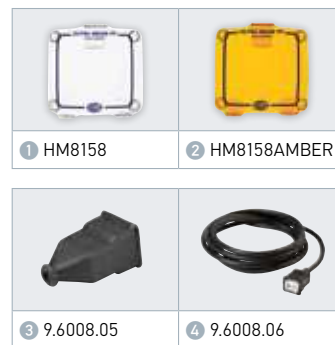
Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



2834	1GA 998 517-031	CLOSE RANGE
Mounting	Recess Mount	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Spare Part	9.1533.01	Insert
Accessories	HM8158 HM8158AMBER 9.6008.05 9.6008.06	Clear Protective Cover ① Amber Clear Protective Cover ② Rubber Boot for AMP Connection ③ Wiring Loom for AMP Connection – 2 metres ④
Not suitable for 100W globes.		

**FF Single Beam – Close Range,
Flush Mount, White**

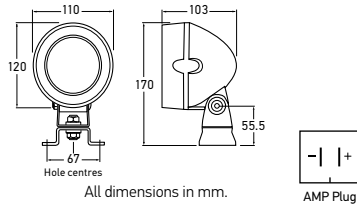
Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



WORK LAMPS

**FF Single Beam
– Close Range, Black**

Compact, oval lens and Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.



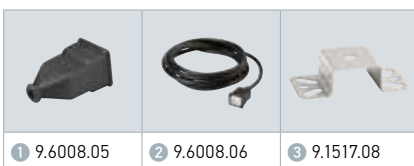
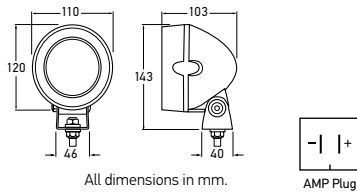
1539	1GM 996 134-172	CLOSE RANGE
Mounting	Steel Pedestal bracket for Upright or Pendant mounting.	
Voltage	Globe to be ordered separately	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	Sealed against dust and moisture to IP5K4K and IPX9K.	
Accessories	9.6008.05 9.6008.06	Rubber Boot for AMP Connection ① Wiring Loom for AMP Connection – 2 metres ②

Not suitable for 100W globes.

WORK LAMPS

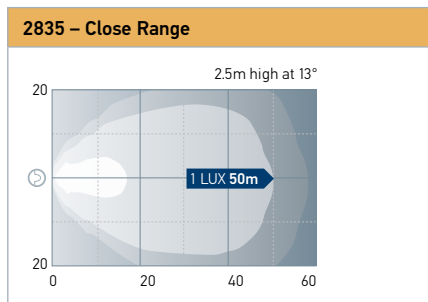
**Halogen FF Single Beam Work Lamp
– Close Range, White**

Compact, oval lens and Free-Form (FF) reflector for uniform close-range illumination. AMP wiring connection.

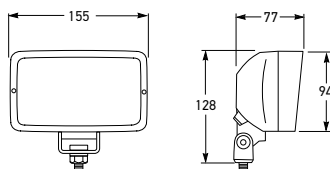


2835	1GM 996 134-201	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright or pendant mounting. Stainless-steel bracket and screws included.	
Voltage	12V (globe included)	
Power Consumption	12V – 55W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Protection	Sealed against dust and moisture to IP5K4K and IPX9K.	
Accessories	9.6008.05 9.6008.06 9.1517.08	Rubber Boot for AMP Connection ① Wiring Loom for AMP Connection – 2 metres ② Universal Pedestal Mounting Bracket ③

Not suitable for 100W globes.



WORK LAMPS



All dimensions in mm.

1519	1GA 007 118-011		BLACK HOUSING
2859	1GA 007 118-002		WHITE HOUSING

Mounting	Upright or Pendant.		
Power Consumption	12V – 55W		
Globe to suit	12V H3 (YC1255) (Globe included)		
Protection	Sealed against dust and moisture to IPX4K.		
Spare Part	9.2859.02	FF insert	1
Accessories	9.1517.08	Universal Pedestal Mounting Bracket	2

Not suitable for 100W globes.

FF Single Beam – Close Range
Black or White

Halogen Work Lamp with black or white fibre reinforced ABS housing, stainless steel bracket, bolts and lens screws. Free-Form (FF) reflector for close range, uniform illumination.



P/N 1519

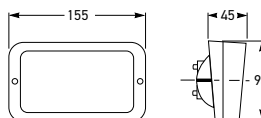
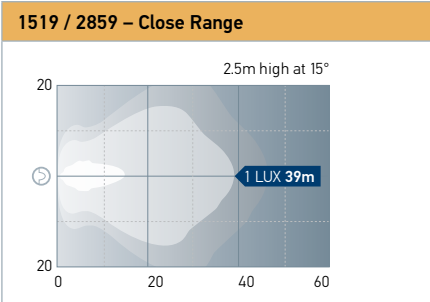


P/N 2859



1 9.2859.02

1 9.1517.08



All dimensions in mm.

2860-BLACK	1GA 996 082-001		BLACK HOUSING
2860	1GA 998 518-001		WHITE HOUSING

Mounting	Recess Mount		
Power Consumption	12V – 55W 24V – 70W		
Globe to suit	12V H3 (YC1255) (Globe included) 24V H3 (YC2470) (Globe to be ordered separately)		
Protection	Sealed against dust and moisture to IPX4K.		
Spare Part	9.2859.02	FF insert	1

Not suitable for 100W globes.

FF Single Beam – Close Range
Flush Mount, Black or White

Halogen Work Lamp with flush mount black or white fibre reinforced ABS housing and Free-Form (FF) reflector for close range, uniform illumination.



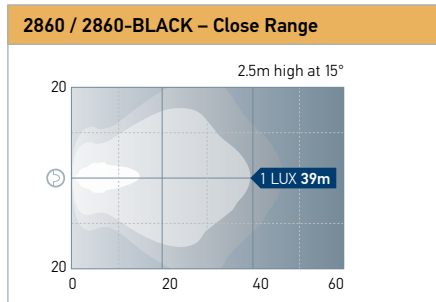
P/N 2860-BLACK



P/N 2860

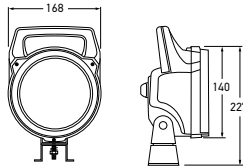


1 9.2859.02



Matador Series

Work Lamp with handle and switch. Black fibre-glass reinforced plastic housing with extended edge to protect lens.



All dimensions in mm.



P/N 1511

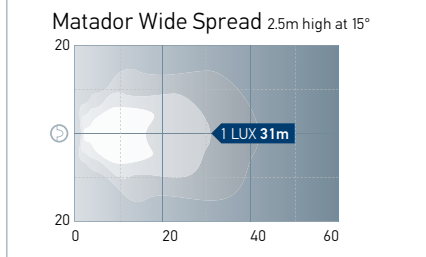


P/N 1513

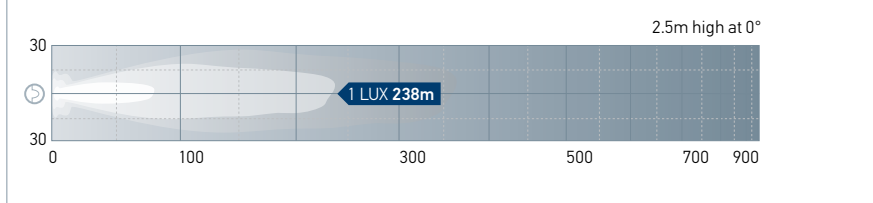
1511	1G4 905 107-001		WIDE SPREAD
1513	1G4 905 109-001		COMBINATION RANGE – WIDE / LONG
Mounting	Full swivel four-point fixing bracket for mounting on flat or slightly curved surfaces.		
Power Consumption	12V – 55W 24V – 70W		
Globe to suit	12V H3 (YC1255) (Globe to be ordered separately) 24V H3 (YC2470) (Globe to be ordered separately)		
Protection	IP 5K4K (Protection against dust and water splash)		
Spare Parts	9.1511.01	Close range insert	
	9.1511.06	On-off rotary switch	
	9.1513.01	Combination range insert	
Accessory	9.1511.07	Protective Grille	

Not suitable for 100W globes.

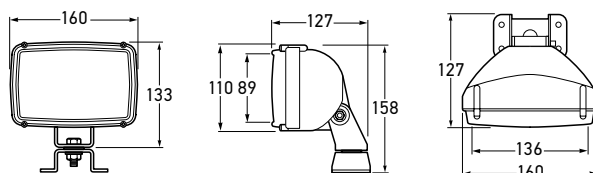
1511 – Wide Spread



1513 – Combination Range – Wide / Long



WORK LAMPS



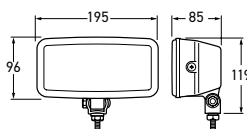
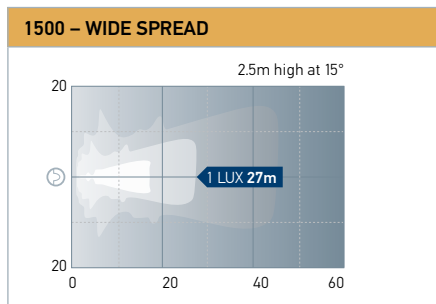
All dimensions in mm.

Flood Lamp – PC Lens Halogen – Wide Spread

Polycarbonate lens for use in agricultural or food processing industries.



1500	1GB 006 991-442	WIDE SPREAD
Mounting	Steel pedestal bracket for Upright mounting on flat surfaces.	
Voltage	Globe to be ordered separately.	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Note	While the reflector/lens (insert) assembly is marked Max. 55W, there have been no heat related issues encountered with use of 24V – 70W globes.	
Accessory	9.1517.08 Universal Pedestal Mounting Bracket	



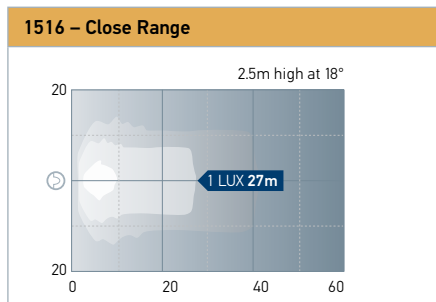
All dimensions in mm.

Flood Lamp – Close Range, 12V

Close range illumination.

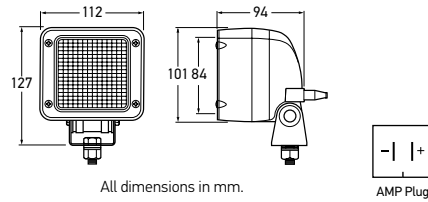


1516	1GD 910 301-001	CLOSE RANGE
Mounting	Single bolt with tilt adjustment for upright mounting.	
Voltage	12V (globe included)	
Power Consumption	12V – 55W 24V – 70W	
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)	
Spare Parts	9.1307.09 Body Assembly 9.1308.08 Mounting Bracket Assembly 9.1516.01 Insert	
Accessory	9.1517.08 Universal Pedestal Mounting Bracket	



Ultra Beam Series
Reversing Spot Lamp
ADR Compliant

Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Equipped with die-cast aluminium Free-Form (FF) reflector and patterned glass lens for broad and uniform illumination. Sturdy design and shock-proof plastic housing for use under heavy duty conditions. Fully sealed to withstand high-pressure washing. AMP wiring connection.



1408	2ZR 997 506-402
Mounting	Bracket and single bolt with tilt adjustment for upright mounting. Detailed mounting instructions included.
Voltage	24 V Globe included.
Power Consumption	12V – 55W 24V – 70W
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K.
Spart Part	9.1408.01 FF Insert
Accessories	9.6008.05 Rubber Boot for AMP Connection ① 9.6008.06 Wiring Loom for AMP Connection – 2m ②
Compliance	ADR 1/100

Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.



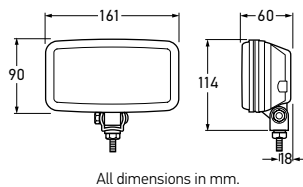
① 9.6008.05

② 9.6008.06

WORK LAMPS

Comet 450 Series
Reversing Spot Lamp
ADR Compliant

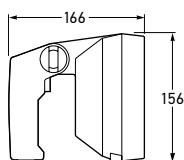
Reversing Spot Lamp providing maximum visibility of the rear and/or sides during reversing manoeuvres. Shock-proof housing for use under heavy duty conditions.



1410	2ZR 005 860-153
Mounting	Bracket and single bolt with tilt adjustment for upright mounting. Detailed mounting instructions included.
Voltage	Globe to be ordered separately.
Power Consumption	12V – 55W 24V – 70W
Globe to suit	12V H3 (YC1255) 24V H3 (YC2470)
Protection	Fully sealed against dust and moisture to IP6K4K and IPX9K.
Compliance	ADR 1/100

Note: Subject to special mounting and wiring specifications. Not suitable for 100W globes.

WORK LAMPS



All dimensions in mm.

Halogen FF Twin Beam Hand-Held Search Lamp – 12V

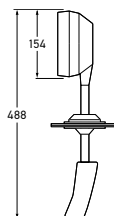
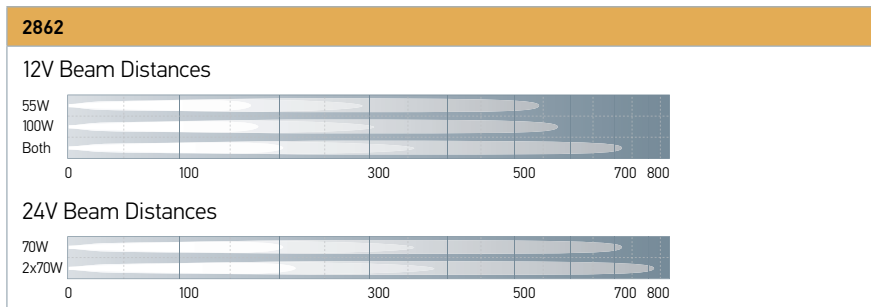
Compact, heavy duty Twin Beam Hand-Held Search Lamp with twin Free-Form (FF) reflector for close-range and powerful 100W long range beam. Handgrip with two independent on/off switches. Spiral cable (extendable to 3.5m) with plug for cigarette lighter and DIN/ISO sockets.



2862	1H3 998 502-001	
Mounting	Suitable for mounting on flat surfaces in conjunction with mounting base Part No. 9.2862.08	
Voltage	12V (globes included)	
Power Consumption	1 x 55W 1 x 100W	
Globe to suit	2 x 12V H3 (1 x YC1255, 1 x YC12100) 2 x 24V H3 (1 x YC2470, 1 x YC24100)	
Protection	Sealed against dust and moisture to IPX6K.	
Spare Parts	9.2862.01 Insert 9.2862.03 Plug Assembly	
Accessory	9.2862.08	Mounting Base (optional)



9.2862.08



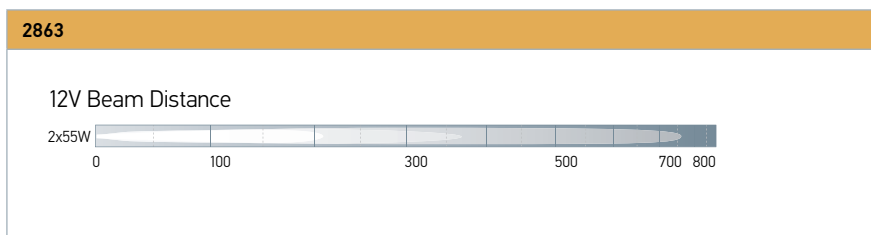
All dimensions in mm.

Halogen FF Twin Beam Search Lamp – Manual Control 12V

Compact Search Lamp for installation into vehicle roof. Twin Free-Form (FF) reflector system and handgrip with integrated on/off switch. 360° horizontal rotation and 30° vertical tilt.



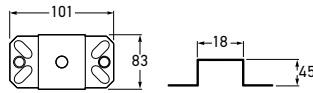
2863	1H3 998 502-021	
Voltage	12V (globes included)	
Power Consumption	2 x 55W	
Globe to suit	2 x 12V H3 (YC1255) 2 x 24V H3 (YC2470)	
Protection	Sealed against dust and moisture to IPX6K.	
Spare Parts	9.2862.01 Insert 9.2863.06 On/off Switch	



WORK LAMPS

Pedestal Mounting Bracket
- Universal

Universal stainless-steel Pedestal Bracket for four-point mounting. Suitable for use with all of HELLA Work Lamps.



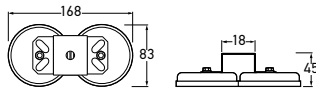
All dimensions in mm.



9.1517.08	9XD 130 261-001
Mounting	10mm dia. mounting hole

Magnetic Mounting Bracket
- Universal

Universal Magnetic Mounting Bracket suitable for use with all HELLA Work Lamps. Consists of 2 magnets and fittings.



All dimensions in mm.



9.1537.08	8HG 004 806-001
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of lamps with a magnetic base cannot be recommended for use on moving vehicles.

HELLA TECH WORLD

FREE Automotive Technical Information Portal



3D Interactive Animations







WORK LAMPS



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We can make your workshop future-proof. At HELLA TECH WORLD you will find all our expert technical knowledge from the fields of lighting, electrics, electronics, thermal management and vehicle diagnostics – interactively presented and always up to date.

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Technology with Vision





Emergency Lighting and Signal Warning Lamps

A comprehensive range of products that meet the requirements of a modern Emergency Response Fleet.



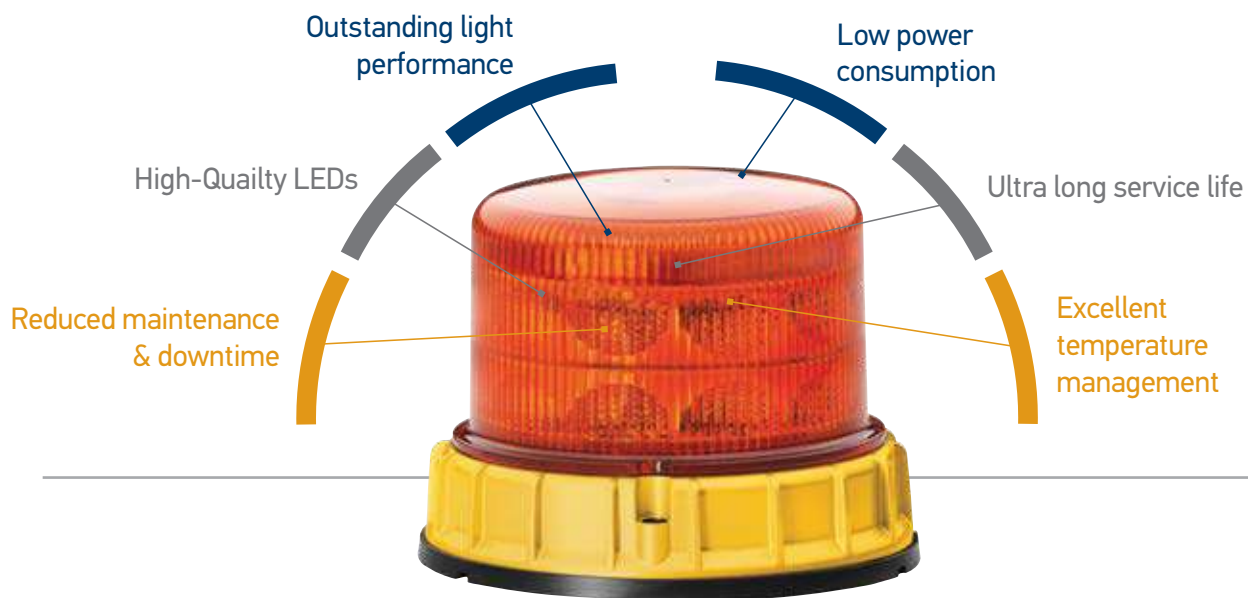
Contents

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HELLA EMERGENCY AND SIGNAL WARNING LIGHTING

HELLA's range of Emergency Lighting and Signal Warning Lamps provide high levels of performance and reliability for situations where a powerful warning light is required to attract attention.



LED is the most desired light technology by emergency services due to the many features it offers: ultra-long service life, low power consumption, outstanding light performance, reduced downtime and maintenance requirements.

Quality materials and robust construction are combined to handle demanding and harsh environments. High-quality components, advanced technology and no moving parts offer extremely long design life. LEDs are solid state components and thus demonstrate a considerable higher vibration resistance compared to bulb and motor driven products.

HELLA's rotating and signal warning lamps, offer choices of signal colour, luminous intensities, flash patterns and supply voltages, providing a complete range of warning lamps to suit most applications and performance requirements.

The rotating light pattern is well recognised as a highly effective warning signal in all conditions, even in bright sunlight. Instant activation is ensured from ambient temperatures ranging from -40°C to $+60^{\circ}\text{C}$.

HELLA LED products must meet the highest quality requirements before being approved for the market.





Light output in accordance with ECE Regulation R65

ECE regulations are performance standards that are mandated in Europe and accepted by many other countries, including Australia.

ECE R65 relates to beacons, flashing and rotating, and requires a minimum light output as well as other mechanical and electrical tests (e.g. EMC, vibration etc).

Most of our beacons comply to ECE standards, however we supplement our range with SAE (American standards) lamps as well, which are also accepted in Australia.

Choose the right lamp for you

Selecting the right product is not always easy. With the online product comparison tool ELIVER you can simulate light distribution patterns from HELLA beacons and visual warning systems in a variety of real-world scenarios.

ELIVER also provides you with all of the relevant information about performance and technical specifications.

ELIVER

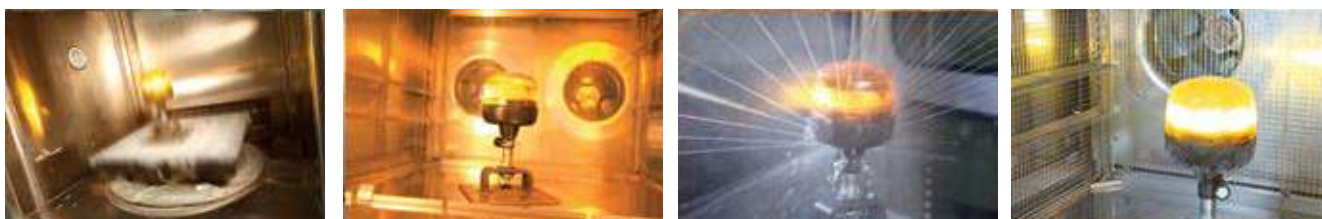
The unique online comparison tool for light distribution.

hella.com/eliver



PERFORMANCE AND RELIABILITY ARE GUARANTEED

HELLA Emergency Lamps are tested to International Standards.



Vibration Test

This test simulates the behaviour of the products in harsh off-road conditions and verifies resistance to potholes, washboard road patterns and gravel roads.

A (wide band random vibration) test is used to test the mechanical endurance strength of the test specimen. The vibration frequency range extends from 10 to 1000 Hertz. In addition to vibration testing, products are subjected to a temperature overload of -40°C to +60°C.

Ingress Protection (IP ratings)

HELLA Emergency and Signal Warning Lighting contain precision electronic and mechanical components in order to achieve outstanding product performance. In order to protect these components and assure long term reliability HELLA products are designed and tested to meet international standards on ingress protection as per IEC 60529, DIN 40050-9 or ISO 20653.

Dust Test

Entry of dust can affect the optical and mechanical operation of a lamp, potentially compromising its performance and reliability. Accordingly HELLA products are designed and tested to ensure the risk of dust ingress is minimised or eliminated. Dust-resistant products are rated at IP 5(K) X, while dust-proof products are rated at IP 6(K) X.

Water Splash Test

HELLA products that fulfil the water splash test requirement have been subjected to environmental testing designed to simulate operating conditions representing normal weather conditions. When correctly installed heavy rain, direct splashes and water sprays up to 4 bar will have no adverse effects on the long term reliability and performance of the product. This level of protection is provided on HELLA products rated at IP X4K or above.

Temporary Immersion Test

HELLA products that fulfil the temporary immersion test requirement have been subjected to tests designed to simulate operating conditions that involve brief immersions in water such as off-road driving through a stream. This level of protection is provided on HELLA products rated at IP X7.

High-Pressure Cleaner Test

For the ultimate in water ingress protection, HELLA products that fulfil the high-pressure cleaner test requirement are able to withstand water and steam jets of up to 80°C and 100 bar that may be encountered during commercial and industrial cleaning processes. This level of protection is provided on HELLA products rated at IP X9K.

IP 6K 9K

First Digit - Second Digit

First Digit Below: Table 1

Protection against solid foreign objects and access to hazardous parts.

Second Digit Right: Table 2

Protection against liquids.

FIRST DIGIT









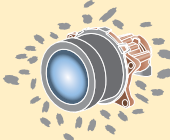

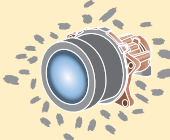
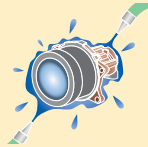

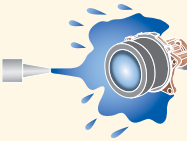

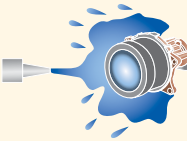
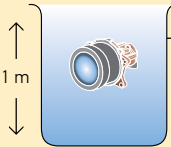


0	Non-protected.
1	Protected against solid foreign objects of 50mm diameter and greater.
2	Protected against solid foreign objects of 12.5mm diameter and greater.
3	Protected against solid foreign objects of 2.5mm diameter and greater.
4	Protected against solid foreign objects of 1.0mm diameter and greater.
5	Dust-protected.
5K	Dust-protected.
6	Dust-sealed.
6K	Dust-sealed.

SECOND DIGIT

0	Non-protected.
1	Protected against drops of water falling vertically.
2	Protected against drops of water falling vertically at up to 15° from the vertical.
3	Protected against spraying water falling vertically at up to 60° from the vertical.
4	Protected against splashing water from all directions.
4K	With higher pressure.
5	Protected against jet of water from all directions.
6	Protected against powerful water jets.
6K	With higher pressure, specific for road vehicles.
7	Protected against the effects of immersion.
8	Protected against prolonged effects of immersion under pressure to specified depth.
9K	Protected against high-pressure cleaner, specific for road vehicles.

IP Ratings

How well protected is a product against environmental influences?
 The IP protection class states how resistant the product is.
 The classes are defined in DIN 40050-9. HELLA products are designed for different degrees of protection:

First Digit	PROTECTION AGAINST SOLID FOREIGN OBJECTS AND ACCESS TO HAZARDOUS PARTS		Second Digit	PROTECTION AGAINST LIQUIDS	
0	—————	Non-protected	0	—————	Non-protected
1	 50mm ↓ ● ↑	Protected against solid foreign objects of 50mm diameter and greater.	1		Protected against drops of water falling vertically.
2	 12.5mm ↓ ● ↑	Protected against solid foreign objects of 12.5mm diameter and greater.	2		Protected against drops of water falling vertically at up to 15° from the vertical.
3	 2.5mm ↓ ● ↑	Protected against solid foreign objects of 2.5mm diameter and greater.	3		Protected against spraying water falling vertically at up to 60° from the vertical.
4	 1.0mm ↓ ● ↑	Protected against solid foreign objects of 1.0mm diameter and greater.	4		Protected against splashing water from all directions.
5		Dust-protected.	4K		With higher pressure.
5K		Dust-protected.	5		Protected against jet of water from all directions.
6		Dust-sealed.	6		Protected against powerful water jets.
6K		Dust-sealed.	6K		With higher pressure, specific for road vehicles.
			7	 15 cm	Protected against the effects of immersion. Protected against high-pressure cleaner, specific for road vehicles.
			8		Protected against prolonged effects of immersion under pressure to specified depth.
			9K		Protected against high-pressure cleaner, specific for road vehicles.



WHAT BEACON IS BEST FOR WHICH APPLICATION?

There is no one beacon specific to certain applications as they are all designed to be used in multiple situations. There are a few factors to consider whenever selecting a beacon. The selection can be narrowed with the help of certain criteria. To find the right beacon for the right application, you should ask yourself the following questions before purchasing.

Where or how intensively / frequently will the beacon be used?

How frequent the beacon will be used and in which environment needs to be taken into account. If the beacon is used very frequently the advantages of LED technology such as design life, low maintenance, low power consumption will be more important than if its use is low.

What kind of warning effects do I want to achieve?

In highly populated areas you would want to draw attention of approaching vehicles to the situation/incident from a reasonable distance. In this case, we recommend using a beacon with a high warning effect. However, if the beacon isn't used frequently and in areas that don't need a high warning effect, a halogen beacon is completely sufficient.

How high is the vibration stress for beacons?

Take into account whether the vehicle will absorb some of the vibration also what kind of environment the beacon will be used in e.g. the roads it will be used on (are they smooth or rough). If needed look at beacons with a mounting attachment that will absorb some of the stress, also look at the design and materials as they may help to reduce vibration stress.

How do I want to attach the beacon to the vehicle?

The type of vehicle and position on the vehicle the beacon will be mounted on will determine which attachment will work best. There are three different mounting options to choose from – fixed, flexible pipe socket and magnetic. The different attachment variants are legally stipulated in DIN 14620.

Fixed Attachment



Flexible Pipe Socket Attachment



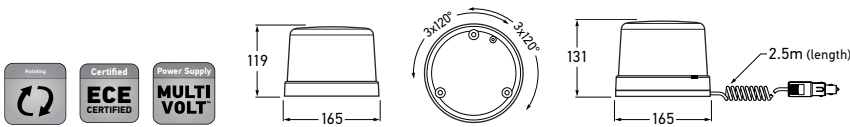
Magnetic Attachment



CAUTION: MOUNTING OF MAGNETIC BASE REVOLVING LAMPS

Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.





Fixed Mount		
1608	2RL 011 484-001 – Fixed Mount, Multivolt	■ AMBER
1608RET	2RL 011 484-002 – Fixed Mount, Multivolt	■ AMBER
Magnetic Mount		
1610	2RL 011 484-021 – Magnetic Mount, Multivolt	■ AMBER
Mounting	Upright, fixed mounting on horizontal surfaces. Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Accessory	HMWGA160 GuardRay® Protective Cage ⓘ	
Spare Part	9.1608.01 Lens	
Compliance	R65 TA1 (E) 00 3397 e1 03 6194 ECE-R10 ⚠	

KL7000LED Series

KL7000LED Beacon, has the latest LED technology provides an optimum signal image with low power consumption. Existing halogen versions can be upgraded to LED. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.



1 P/N HMWGA160 1608RET



1609	2RL 011 484-011 – Pipe Mount, Multivolt	■ AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts.	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Accessory	HMWGA160 GuardRay® Protective Cage ⓘ	
Spare Part	9.1608.01 Lens	
Compliance	R65 TA1 (E) 00 3397 e1 03 6194 ECE-R10 ⚠	

KL7000LED Series

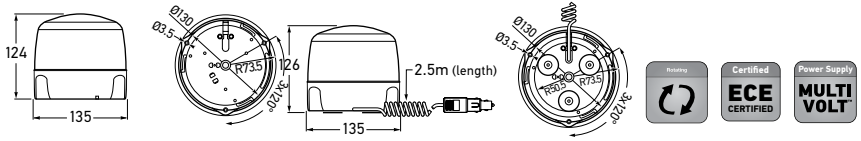
KL7000LED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. Existing halogen versions can be upgraded to LED. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant PMMA lens.



1 P/N HMWGA160

RotaLED Series

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.

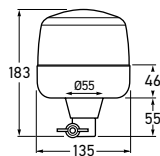


Fixed Mount		
1611	2RL 010 979-001 – Fixed Mount, Multivolt	■ AMBER
1611RET	2RL 010 979-002 – Fixed Mount, Multivolt	■ AMBER
Magnetic Mount		
1613	2RL 010 979-021 – Magnetic Mount, Multivolt	■ AMBER
Mounting	Upright, fixed mounting on horizontal surfaces. Magnetic Mounting on horizontal surfaces. Supplied with spiral cable (extends up to 2.5m) and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Spare Part	9.1608.01 Lens	
Compliance	R65 TA1 (E) 00 3109 [e1] 03 5517 ECE-R10	

EMERGENCY & SIGNAL

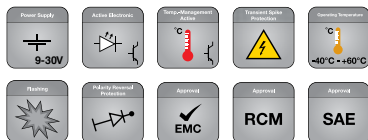
RotaLED Series

RotaLED Beacon, with the latest LED technology provides an optimum signal image with low power consumption. The combination of thermal management and optics in one module makes a remarkably compact design possible. Impact and dirt-resistant Polycarbonate lens.



1612	2RL 010 979-011 – Pipe Mount, Multivolt	■ AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 259)	
Voltage	Multivolt 10-32V DC	
Current Draw	12V DC - 0.8A 24V DC - 0.4A	
Power Consumption	12V DC - 10W 24V DC - 10W	
Rotation	120-133 rpm simulated (2.0-2.2Hz)	
RF Suppression	CISPR25 Power Controlled Class 5.	
Protection	IP5KX, IPX4K and IPX9K	
Compliance	R65 TA1 (E) 00 3109 [e1] 03 5517 ECE-R10	

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS

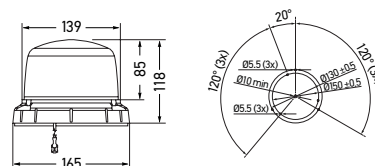


Fixed Mount	Magnetic Mount	
2XD 012 480-301	2XD 012 480-401	AMBER
2XD 012 480-311	2XD 012 480-411	RED
2XD 012 480-321	2XD 012 480-421	BLUE
2XD 012 480-331	2XD 012 480-431	CLEAR
2XD 012 480-341	2XD 012 480-441	GREEN

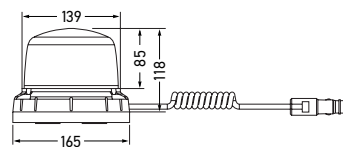
Voltage	9-30V
Current Consumption	Rotating: @ approx. 0.2A (24V) Flashing: @ approx. 0.4A (12V)
Power Consumption	4W
Dome Lens	Polycarbonate
Housing	Polycarbonate & ABS
IP Rating	IP6K7, IP6K9K
Operating temperature	-40°C to 60°C
Reverse polarity protection	Yes
EMC interference immunity	ECE-R10 057636,
Type Approval	SAE J845 class 3

MiniRAY 2.1

MiniRAY 2.1 is a flashing only beacon and is available in fix mount and magnet mount. Flat compact design, low current consumption, high efficiency and long service life. The new MiniRAY 2.1 LED beacon with flashing light function and impact-resistant polycarbonate dome is designed for Mining service vehicles. The LEDs are maintenance-free so no additional spare parts are required. This reduces downtime to a minimum. There are two mounting options available making installation extremely flexible (Ø 130 mm and SAE Ø 150 mm). One of few cost competitive beacons in the market with SAE type approval.



Fixed attachment
Dimensions in mm



Magnetic attachment
Dimensions in mm

EMERGENCY & SIGNAL

OptiRAY 2.0 and OptiRay 2.1

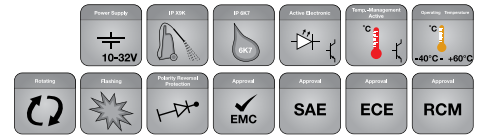
Long service life: No moving parts, no wear and maximum reliability providing long design life and low life cycle costs. Based on the proven and successful design of the RotaLed, the increased IP Rating enabled the OptiRay to be used in even the harshest environments with frequent high pressure cleaning.

Since LEDs are maintenance-free, they do not cause any additional costs for spare parts or maintenance. Down-times are reduced to a minimum.

Vibration resistant, OptiRay are optimally protected against vibrations and jolting through the use of LED technology.

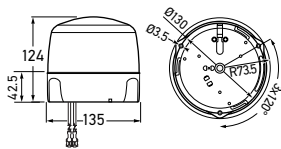
Innovative electronics concept makes a rotary or flashing function possible without moving parts. Flat compact design and impact-resistant dome made of polycarbonate protect the light from impact.

Two different attachment variants guarantee surface-mounted solutions for every application.

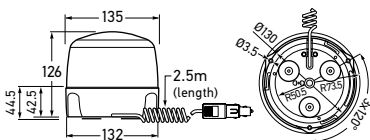


	Fixed Mount	Magnetic Mount	
OptiRay 2.0 Rotating	2RL 010 979-201	2RL 010 979-221	AMBER
	2RL 010 979-301	2RL 010 979-321	BLUE
	2RL 010 979-401	2RL 010 979-421	RED
	2RL 010 979-601	2RL 010 979-621	GREEN
	2RL 010 979-701	2RL 010 979-721	WHITE
OptiRay 2.1 Flashing	2XD 012 878-301	2XD 012 878-321	AMBER
	2XD 012 878-401	2XD 012 878-421	BLUE
	2XD 012 878-501	2XD 012 878-521	RED
	2XD 012 878-601	2XD 012 878-621	GREEN
	2XD 012 878-701	2XD 012 878-721	WHITE

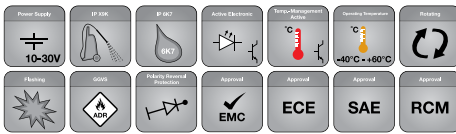
Voltage	10-32V
Current Consumption	Rotating: @ 0.8A (12V) & @ 0.4A (24V) Flashing: @ 0.7A (12V) & @ 0.35A (24V)
Power Consumption	Rotating: 10W Flashing: 12W
Dome Lens	Polycarbonate
Housing	EPDE Rubber
IP Rating	IP6K7, IP6K9K
Operating temperature	-40°C to 60°C
Reverse polarity protection	Yes
EMC interference immunity	ECE-R10
Type Approval	SAE J845 class 2 (OptiRAY 2.0 only)
ECE R65 Compliance OptiRay 2.0 Rotating	Amber: TA1 (E1) R65 00 3109 Blue: TB1 (E1) R65 00 3503
ECE R65 Compliance OptiRay 2.1 Flashing	Amber: TA1 (E1) R65 00 4154 Blue: TB1 (E1) R65 00 4155 Red: TR1 (E1) R65 00 4255



Fixed attachment
Dimensions in mm



Magnetic attachment
Dimensions in mm



	Fixed Mount	Magnetic Mount	
UltraRay 2.0 Rotating	2RL 012 983-001	2RL 012 983-101	AMBER
	2RL 012 983-011	2RL 012 983-111	BLUE
	2RL 012 983-021	2RL 012 983-121	RED
	2RL 012 983-031	2RL 012 983-131	GREEN
	2RL 012 983-041	2RL 012 983-141	WHITE
UltraRay 2.1 Flashing	2XD 012 984-001	2XD 012 984-101	AMBER
	2XD 012 984-011	2XD 012 984-111	BLUE
	2XD 012 984-021	2XD 012 984-121	RED
	2XD 012 984-031	2XD 012 984-131	GREEN
	2XD 012 984-041	2XD 012 984-141	WHITE

Voltage	10-30V
Current Consumption	Rotating: @ 1.6A (12V) & @ 0.8A (24V) Flashing: @ 1.8A (12V) & @ 0.9A (24V)
Power Consumption	Rotating: 20W Flashing: 22W
Dome Lens	Polycarbonate
Housing	Powder-coated die-cast aluminium
IP Rating	IP6K7, IP6K9K
Operating temperature	-40°C to +60°C
Reverse polarity protection	Yes
EMC interference immunity	ECE-R10
Type Approval	SAE J845 class 1, ECE R65
ECE R65 Compliance UltraRay 2.0 Rotating	Amber: TA1 R65 004439 Blue: TB1 R65 004440 Red: TR1 R65 004441
ECE R65 Compliance UltraRay 2.1 Flashing	Amber: TA1 R65 004442 Blue: TB1 R65 004443 Red: TR1 R65 004444

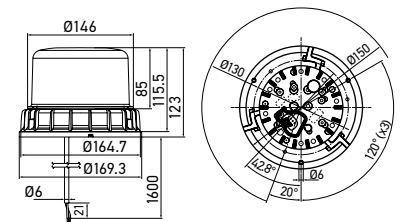
UltraRAY 2.0 (Rotating)
UltraRAY 2.1 (Flashing)
Powerful Heavy Duty LED Beacon

UltraRay Beacons are an innovative electronic concept offering a rotating or a flashing LED light function – without moving parts.

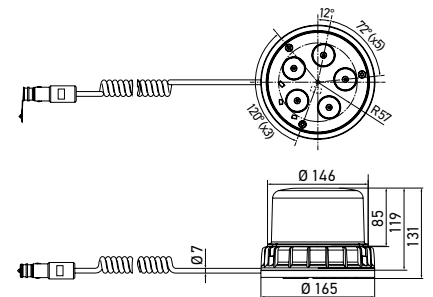
The unsurpassed EMI footprint meets the highest possible standard (CISPR25 Class 5). Wherever beacons risk interference with radio communications, UltraRAY is the solution. UltraRAY can be mounted directly next to radio communication systems and there will be no disturbance from the beacon.

The shockproof polycarbonate dome guarantees especially reliable protection from impact.

The double lighting system in the UltraRAY 2.0 / 2.1 increases the light exit area, so producing an especially strong warning effect.



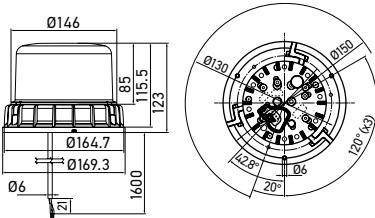
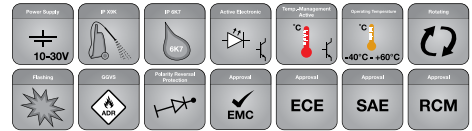
Fixed attachment
Dimensions in mm



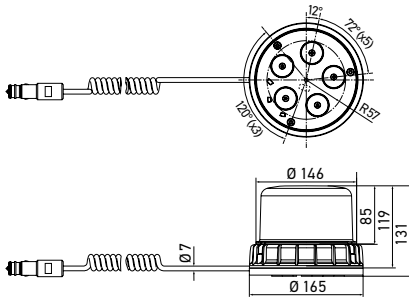
Magnetic attachment
Dimensions in mm

DuraRAY 4.0 Brightest HELLA LED Beacon made for Mining

The integrated light sensor automatically toggles between day and night mode. This guarantees the best possible warning effectiveness.



Fixed attachment
Dimensions in mm

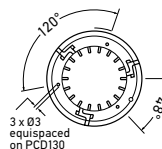
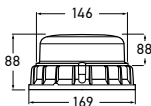
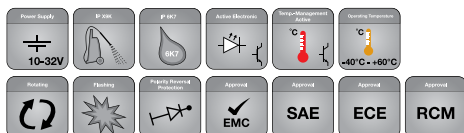


Magnetic attachment
Dimensions in mm

Fixed Mount	Magnetic Mount	
2XD 012 985-001	2XD 012 985-101	AMBER
2XD 012 985-011	2XD 012 985-111	BLUE
2XD 012 985-021	2XD 012 985-121	RED
2XD 012 985-031	2XD 012 985-131	GREEN
2XD 012 985-041	2XD 012 985-141	WHITE

Voltage	10-30V
Current Consumption	@ 2.6A (12V) @ 1.3A (24V)
Power Consumption	32W
Dome Lens	Polycarbonate
Housing	Powder-coated die-cast aluminium. Passivated.
IP Rating	IP6K7, IP6K9K
Operating temperature	-40°C to 60°C
Reverse polarity protection	Yes
EMC interference immunity	ECE-R10, CISPR 25 Class 5,
Type Approval	SAE J845 class 1, ECE R65
ECE R65 Compliance	Amber: TA1 (E1) R65 004509
Rotating Function	Blue: TB1 (E1) R65 004510
	Red: TR1 (E1) R65 004511
ECE R65 Compliance	Amber: TA1 (E1) R65 004512
Flashing Function	Blue: TB1 (E1) R65 004513
	Red: TR1 (E1) R65 004514

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



K-LED® Mining LED Warning Beacon

K-LED Mining is the benchmark in the world of low profile mining beacons. This state of the art beacon is designed for smaller mobile vehicles to suit modern styling requirements.

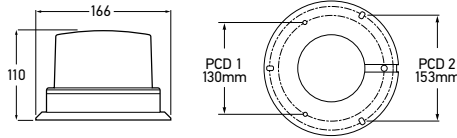


Fixed Mount		
HM9600ADIR	2XD 011 557-001 – Fixed Mount, Multivolt	AMBER
HM9600BDIR	2XD 011 557-011 – Fixed Mount, Multivolt	BLUE
HM9600RDIR	2XD 011 557-021 – Fixed Mount, Multivolt	RED
HM9600GDIR	2XD 011 557-031 – Fixed Mount, Multivolt	GREEN
Magnetic Mount		
HM9600AMAG	2XD 011 557-051 – Magnetic Mount, Multivolt	AMBER
Pole Mount		
HM9600APIP	2XD 011 557-041 – Pole Mount, Multivolt	AMBER
Voltage	Multivolt 9-33V DC	
Power Consumption	33W Max	
Dome Lens	Polycarbonate	
Housing	Powder-coated die-cast aluminium	
IP Rating	IP6K7, IP6K9K	
Operating temperature	-40°C to 60°C	
Reverse polarity protection	Yes	
EMC interference immunity	CISPR25 class 5. ECE R10.	
Type Approval	SAE J845 class 1	
ECE R65 Compliance	Amber: TA2 R65 00 3555 Red: TR2 R65 03 6816	
Accessory	HM9600PIPE Pipe Mount Kit	

EMERGENCY & SIGNAL

OptiRAY®-E Series

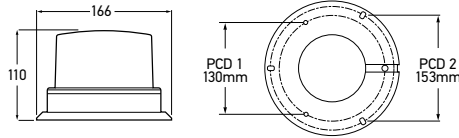
Compact and extremely robust LED Warning Beacon for heavy-duty applications. Equipped with high impact-resistant, clear polycarbonate lens and UV-resistant fibreglass nylon composite base for increased mechanical strength. Tolerant to severe vibration levels and suitable for corrosive environments where metal products should not be used. O-ring sealed against dust and water ingress.



Fixed Mount		
HM300ADIR	2RL 910 073-001 – Direct Mount, Multivolt	■ AMBER
HM300RDIR	2RL 910 075-051 – Direct Mount, Multivolt	■ RED
HM300BDIR	2RL 910 075-011 – Direct Mount, Multivolt	■ BLUE
HM300GDIR	2RL 910 075-031 – Direct Mount, Multivolt	■ GREEN
HM300WDIR	2RL 910 075-071 – Direct Mount, Multivolt	■ WHITE
Magnetic Mount		
HM300AMAG	2RL 910 075-001 – Magnetic Mount, Multivolt	■ AMBER
HM300RMAG	2RL 910 075-061 – Magnetic Mount, Multivolt	■ RED
HM300BMAG	2RL 910 075-021 – Magnetic Mount, Multivolt	■ BLUE
HM300GMAG	2RL 910 075-041 – Magnetic Mount, Multivolt	■ GREEN
HM300WMAG	2RL 910 075-081 – Magnetic Mount, Multivolt	■ WHITE
Mounting	Fixed or Magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt 12-30V DC	
Power Consumption	12W Max	
Flash Rate	80 per minute (double)	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM360PIPE	Pipe Mount Kit ①
Spare Part	9.HM360LENS ■ Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	



EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



Fixed Mount		
HM360ADIR	2RL 910 078-021 – Direct Mount, Multivolt	AMBER
HM360RDIR	2RL 910 078-111 – Direct Mount, Multivolt	RED
HM360BDIR	2RL 910 078-061 – Direct Mount, Multivolt	BLUE
HM360GDIR	2RL 910 078-081 – Direct Mount, Multivolt	GREEN
HM360WDIR	2RL 910 078-131 – Direct Mount, Multivolt	WHITE
Magnetic Mount		
HM360AMAG	2RL 910 078-041 – Magnetic Mount, Multivolt	AMBER
HM360RMAG	2RL 910 078-121 – Magnetic Mount, Multivolt	RED
HM360BMAG	2RL 910 078-071 – Magnetic Mount, Multivolt	BLUE
HM360GMAG	2RL 910 078-091 – Magnetic Mount, Multivolt	GREEN
HM360WMAG	2RL 910 078-141 – Magnetic Mount, Multivolt	WHITE
Mounting	Fixed or magnetic mounting on horizontal surfaces.	
Voltage	Multivolt 12-30V DC	
Power Consumption	20W Max	
Flash Rate	80 per minute (double). 16 user-selectable flash patterns.	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Spare Part	9.HM360LENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	

OptiRAY® Series

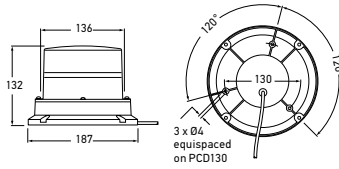
Extremely robust LED Warning Beacon for heavy-duty applications, featuring sixteen user-selectable flash patterns and automatic daylight detection to suit a large variety of applications.

Equipped with high impact-resistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. Double insulated supply cable and o-ring sealed against dust and water ingress.



UltraRAY® Series

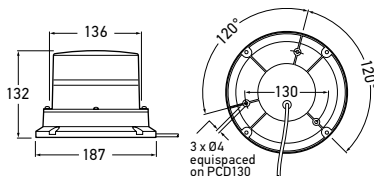
Extremely robust LED Warning Beacon for heavy-duty applications, featuring four user-selectable flash patterns and automatic daylight detection to suit a large variety of applications. Equipped with high impact-resistant, clear polycarbonate lens bolted to a heavy-duty, corrosion-resistant cast-alloy base. O-ring sealed against dust and water ingress.



Fixed Mount		
HM400ADIR	2RL 910 081-001 – Direct Mount, Multivolt	AMBER
HM400RDIR	2RL 910 081-031 – Direct Mount, Multivolt	RED
HM400BDIR	2RL 910 081-011 – Direct Mount, Multivolt	BLUE
HM400GDIR	2RL 910 081-021 – Direct Mount, Multivolt	GREEN
HM400WDIR	2RL 910 081-041 – Direct Mount, Multivolt	WHITE
Magnetic Mount		
HM400AMAG	2RL 910 082-001 – Magnetic Mount, Multivolt	AMBER
HM400RMAG	2RL 910 082-031 – Magnetic Mount, Multivolt	RED
HM400BMAG	2RL 910 082-011 – Magnetic Mount, Multivolt	BLUE
HM400GMAG	2RL 910 082-021 – Magnetic Mount, Multivolt	GREEN
HM400WMAG	2RL 910 082-041 – Magnetic Mount, Multivolt	WHITE
Mounting	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt 12-30V DC	
Power Consumption	20W Max	
Flash Rate	80 per minute (double). 4 user-selectable flash patterns (double, quad and 2 random patterns).	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit ¹
Spare Part	9.HM400LENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	



¹ P/N HM400PIPE



**UltraRAY®-R
'Rotating' Series**

UltraRAY®-R LED Warning Beacons are optimised to deliver high visibility warning signals in the dusty conditions of surface mining operations – day and night. UltraRAY®-R Beacons feature user-selectable 'rotating' or quad flash patterns.

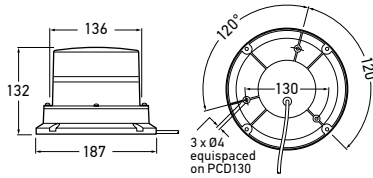


Fixed Mount		
HM450ADIR	2RL 910 087-001 – 'Rotating' Direct Mount, Multivolt	AMBER
HM450RDIR	2RL 910 087-081 – 'Rotating' Direct Mount, Multivolt	RED
HM450BDIR	2RL 910 087-041 – 'Rotating' Direct Mount, Multivolt	BLUE
HM450GDIR	2RL 910 087-061 – 'Rotating' Direct Mount, Multivolt	GREEN
HM450WDIR	2RL 910 087-101 – 'Rotating' Direct Mount, Multivolt	WHITE
Magnetic Mount		
HM450AMAG	2RL 910 087-031 – 'Rotating' Magnetic Mount, Multivolt	AMBER
HM450RMAG	2RL 910 087-091 – 'Rotating' Magnetic Mount, Multivolt	RED
HM450BMAG	2RL 910 087-051 – 'Rotating' Magnetic Mount, Multivolt	BLUE
HM450GMAG	2RL 910 087-071 – 'Rotating' Magnetic Mount, Multivolt	GREEN
HM450WMAG	2RL 910 087-111 – 'Rotating' Magnetic Mount, Multivolt	WHITE
Mounting	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt 12-30V DC	
Power Consumption	20W Max	
Flash Rate	Rotating Flash	80 cycles/min 72fpm (quad)
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit ①
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS Clear PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	



**UltraRAY®-R
Twin Series**

The UltraRAY®-R TWIN LED beacon is designed for increased visibility in bright sunlight with more than double the intensity of the original UltraRAY®. Compact, robust and tolerant to severe vibration, maintenance-free LEDs reduce demand on electrical systems by up to 70%. A highly efficient and effective warning beacon in daylight on surface operations in extreme environmental conditions.

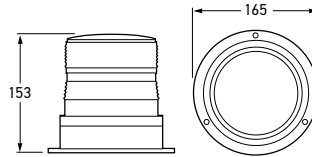


Fixed Mount		
HM500ADIR	2RL 910 097-001 – 'Rotating' Direct Mount, Multivolt	AMBER
HM500RDIR	2RL 182 653-502 – 'Rotating' Direct Mount, Multivolt	RED
HM500BDIR	2RL 182 653-102 – 'Rotating' Direct Mount, Multivolt	BLUE
HM500GDIR	2RL 182 653-302 – 'Rotating' Direct Mount, Multivolt	GREEN
HM500WDIR	2RL 182 653-702 – 'Rotating' Direct Mount, Multivolt	WHITE
Magnetic Mount		
HM500AMAG	2RL 182 653-002 – 'Rotating' Magnetic Mount, Multivolt	AMBER
HM500RMAG	2RL 182 653-602 – 'Rotating' Magnetic Mount, Multivolt	RED
HM500BMAG	2RL 182 653-202 – 'Rotating' Magnetic Mount, Multivolt	BLUE
HM500GMAG	2RL 182 653-402 – 'Rotating' Magnetic Mount, Multivolt	GREEN
HM500WMAG	2RL 182 653-802 – 'Rotating' Magnetic Mount, Multivolt	WHITE
Mounting	Fixed or magnetic mounting on horizontal surfaces. Optional pipe mount kit available.	
Voltage	Multivolt 12-30V DC	
Power Consumption	50W Max	
Flash Rate	Rotating 80 cycles/min Flash 72fpm (quad).	
Temperature Range	-20° to +50°C	
Lead Length	2 metres (double-insulated cable).	
Protection	Overheat, reverse polarity and short circuit protected. Fully sealed against dust and moisture to IP6K5. Shock resistant to 200G.	
Accessory	HM400PIPE	Pipe Mount Kit ①
Spare Parts	9.HM450ALENS Amber PC Lens 9.HM450RENS Red PC Lens 9.HM450BLENS Blue PC Lens 9.HM450GLENS Green PC Lens 9.HM450WLENS White PC Lens	
Compliance	Meets SAE J845 requirements for Class 1 (red) and Class 2 (amber)	



① P/N HM400PIPE

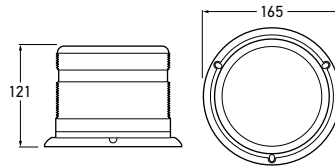
EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



1646	2RL 905 127-031 – Fixed Mount, Double Flash	AMBER
1647	2RL 905 127-041 – Fixed Mount, Double Flash	BLUE
1648	2RL 905 128-001 – Fixed Mount, Double Flash	GREEN
Mounting	Fixed Mounting on horizontal surfaces	
Voltage	Multi Volt 12-48V DC	
Current Draw	0.65 - 0.18A	
Power Consumption	13.3W (10 joule rating)	
Flash Rate	70 +/- 2 per minute (double)	
Globe to suit	XN551 Flash Tube (included)	
Protection	IP65	
Accessories	8028 Magnetic Mounting Kit 1 Caution: Mounting restrictions apply. (see page 259) HMWGA160 GuardRay Protective Cage	
Compliance	Meets SAE J1318 requirements for Class 3	

Pulsator 551 Series

Heavy-Duty Xenon Strobe Lamp fitted with impact-resistant Polycarbonate lens and base. The solid-state circuitry is encapsulated in silicone gel providing maximum protection against vibration, shock, heat and ingress of moisture.



1600	2RL 905 123-001 – Fixed Mount, Double/Quad Flash	BLUE
1601	2RL 905 124-001 – Fixed Mount, Double/Quad Flash	RED
1602	2RL 905 124-011 – Fixed Mount, Double/Quad Flash	AMBER
1603	2RL 905 125-001 – Fixed Mount, Double/Quad Flash	GREEN
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	12-24V DC	
Current Draw	4.6-2.1A	
Power Consumption	Double 12V DC - 25W 24V DC - 22W (10 joule rating) Quad 12V DC - 30W 24V DC - 27W (15 joule rating)	
Flash Rate	80 +/- 5 per minute (double) 65 +/- 5 per minute (quad)	
Globe to Suit	XN6750 Flash Tube (included)	
Protection	IP65	
Accessories	9.1600.06 Clear Lens Dust Cover ① 9.1600.07 Branch Guard ② HMWGA160 GuardRay Protective Cage ③	
Spare Parts	9.1600.01 Blue PC Lens 9.1601.01 Red PC Lens 9.1602.01 Amber PC Lens 9.1603.01 Green PC Lens 9.1604.01 Clear PC Lens	
Compliance	Meets SAE J1318 requirements for Class 2.	

6750 Series

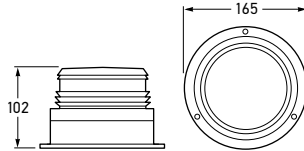
Heavy-Duty Xenon Strobe Lamp fitted with impact-resistant Polycarbonate lens and metal base featuring user-selectable double or quad flash at time of installation. The circuit board is encapsulated in epoxy providing maximum protection against vibration, shock, heat and ingress of moisture. Dual-voltage circuitry enables unit to operate on either 12V or 24V DC input voltage. Electronics with i.beam LED status indicator constantly monitor the strobe light operation for reliable self-diagnosis. Reverse polarity, with voltage spike and surge protection.



EMERGENCY & SIGNAL

**Pulsator 451
Strobe Beacon**

The Pulsator 451 low profile, 12 to 48V strobe is ideal for applications that require shock-resistant mounting, water-resistant performance and easy maintenance. The unit is reverse polarity-protected with an isolated earth that enables both negative and positive ground installations.



1643	2RL 905 126-001 – Fixed Mount, Double Flash, Multivolt	■ BLUE
1644	2RL 905 126-011 – Fixed Mount, Double Flash, Multivolt	■ RED
1645	2RL 905 126-021 – Fixed Mount, Double Flash, Multivolt	■ AMBER
1661	2RL 905 132-001 – Fixed Mount, Double Flash, Multivolt	■ GREEN

Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	Multivolt 12-48V DC	
Current Draw	0.9 - 0.25A	
Power Consumption	11 Watts, 8 Joules	
Flash Rate	80 +/- 10 per minute, double flash.	
Protection	IP 55 (Protection against dust and water jets)	
Globe to Suit	XN451 Flash Tube (included) ②	
Spare Parts	8028	Magnetic Mounting Kit ①
Compliance	SAE J1318 Class 2	
HELLA does not recommend the magnetic base version for use on a moving vehicle.		

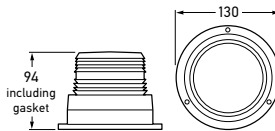


① P/N 8028 (extendable to two metres). ② P/N XN451

EMERGENCY & SIGNAL

Firebolt Plus Series

The Firebolt Plus Strobe features a 2 joule power supply that works from 12 to 72V. Modular construction incorporates a powerful, replaceable strobe tube and vibration-resistant circuit board. The unit also features a tough impact-resistant Polycarbonate lens and base. Applications include fork-lift, electric vehicles, industrial trucks and equipment. Supplied with enclosed base and all necessary mounting hardware (mounts with three bolts).



1655	2RL 905 130-001 – Fixed Mount, Strobe Beacon, Multivolt	■ BLUE
1656	2RL 905 130-011 – Fixed Mount, Strobe Beacon, Multivolt	■ RED
1657	2RL 905 130-021 – Fixed Mount, Strobe Beacon, Multivolt	■ AMBER
1663	2RL 905 133-001 – Fixed Mount, Strobe Beacon, Multivolt	■ GREEN

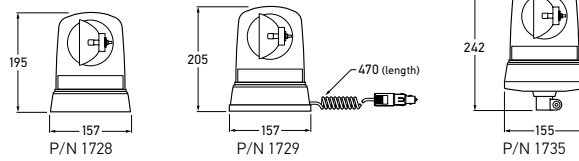
Mounting	Fixed Mounting on horizontal surfaces.	
Voltage	12-72V DC	
Current Draw	0.24 - 0.04A	
Power Consumption	3 Watts, 2 Joules	
Flash Rate	60 +/- 10 per minute	
Protection	IP 55 (Protection against dust and water jets)	
Globe to Suit	XN000 Strobe tube (included) ②	
Accessories	8027	Magnetic Mounting Kit ① Caution: Mounting restrictions apply. (see page 259)
Compliance	SAE J1318 Class 3	
HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 259)		



① P/N 8027 (extendable to two metres). ② P/N XN000

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS

KL7000 Series



1728	2RL 008 061-142 – Fixed Mount, 12V DC	■ AMBER
1728-24V	2RL 378 299-002 – Fixed Mount, 24V DC	■ AMBER
1727	2RL 378 297-002 – Fixed Mount, 12V DC	■ RED
1727-24V	2RL 378 298-002 – Fixed Mount, 24V DC	■ RED
1726	2RL 378 294-001 – Fixed Mount, 12V DC	■ BLUE
1726-24V	2RL 378 295-001 – Fixed Mount, 24V DC	■ BLUE

KL7000 high performance Revolving Beacon has light values well above the minimum requirements. All KL 7000 Beacons can be operated on 12 or 24V by changing the globe. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.



1729	2RL 008 062-132 – Magnetic Mount, Dual Voltage 12/24V DC*	■ AMBER
1735	2RL 905 145-001 – Flexi-base Mount, Dual Voltage 12/24V DC*	

Current Draw	12V DC - 5.5A 24V DC - 3.5A
Power Consumption	12V DC - 55W 24V DC - 70W
Rotation	160rpm
RF Suppression	Conducted Class 5 (CISPR25).
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)
Globes to Suit	12V C1255 (included) 1728, 1727, 1726, *1729, *1735 24V C2470 (included) 1728-24V, 1727-24V, 1726-24V

Spare Parts	9.1726.01	■ Blue lens
	9.1727.01	■ Red lens
	9.1728.01	■ Amber lens
	9.1737.91	Two drive belts
	9.1726.23	Reflector assembly
	9.1726.52	Motor assembly 12/24V
	8007	Connecting piece ①
	8007RA	Connecting piece - right angle mount ②
8007FM	Connecting piece - flat mount ③	
8007SCR	2-Pole Beacon Mount - Screw ④	

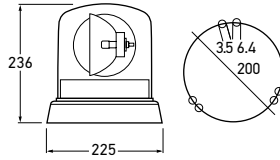
HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 259)
See pages 259 & 260 for spare part images.



EMERGENCY & SIGNAL

KL8000 Series

KL8000 Revolving Beacon was developed for large and heavy commercial vehicles. High light values guarantee utmost warning effectiveness and safety. Smooth running is achieved due to the maintenance-free drive bearings and twin-belt technology.

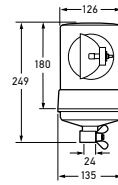


1796	2RL 008 065-141 – Fixed Mount, Dual Voltage 12/24V DC	■ AMBER
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160rpm	
RF Suppression	Conducted Class 5 (CISPR 25).	
Globe to Suit	12V - C1255 (included) 24V - C2470	
Protection	IP 5K4K (Protection against dust and water splashing with increased pressure) IP X9K (Protection against high-pressure/steam jet cleaning)	
Spare Parts	9.1796.01 ■ Amber lens 9.1737.91 Two drive belts 9.1726.52 Motor assembly 12/24V	

P/N 9.1726.52	P/N 9.1794.23
P/N 9.1737.91	

EMERGENCY & SIGNAL





KL600 Series Beacon

Pipe Mount Revolving Beacon. Halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.

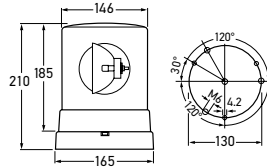


1710	2RL 004 957-301 – 12 Volt, Pipe Mount	■ AMBER
1713	2RL 004 957-111 – 24 Volt, Pipe Mount, Optic Lens	■ AMBER
Mounting	Pipe Mounting. Tubular base incorporates connection plug. Must be used in conjunction with connecting piece Part No. 8007, or other HELLA 2-pole beacon mounts. (see page 259)	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30 rpm	
Protection	IP 45	
Note	1710 version shown	
Globe to Suit	12V H1 (C1255) 24V H1 (C2470)	
Accessories	8007 2-Pole Beacon Mount 8007FM 2-Pole Beacon Mount – Flat 8007RA 2-Pole Beacon Mount – 90° 8007SCR 2-Pole Beacon Mount – Screw	
Spare Parts	9.1708.01 ■ Blue Lens 9.1711.01 ■ Blue Lens (optic) 9.1701.01 ■ Red Lens 9.1710.01 ■ Amber Lens 9.1713.01 ■ Amber Lens (optic) 9.1717.52 12V Motor with reflector (clip mount) 9.1717.23 Reflector Base Assembly (screw mount) 9.1717.54 12V Motor (plastic type) 9.1720.54 24V Motor (plastic type) 9.1737.91 Drive Belts (set of 2)	

P/N 8007	P/N 9.1717.52
P/N 9.1717.23	P/N 9.1717.54
P/N 9.1737.91	

KL700 Series Beacon

KL700 high performance Revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin-belt drive ensures a smooth and quiet operation.



1717	2RL 905 137-001 – 12 Volt DC, Fixed Mount	■ BLUE
1720	2RL 905 139-001 – 24 Volt DC, Fixed Mount	■ BLUE
1718	2RL 905 137-011 – 12 Volt DC, Fixed Mount	■ RED
1721	2RL 905 139-011 – 24 Volt DC, Fixed Mount	■ RED
1719	2RL 905 137-021 – 12 Volt DC, Fixed Mount	■ AMBER
1719RET	2RL 905 137-022 – 12 Volt DC, Fixed Mount	■ AMBER
1722	2RL 905 139-021 – 24 Volt DC, Fixed Mount	■ AMBER
1722RET	2RL 905 139-022 – 24 Volt DC, Fixed Mount	■ AMBER
1724	2RL 905 143-001 – Optic Lens	■ AMBER

Mounting Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing screws, DIN B1: PCD 130mm.

Voltage	12V DC (globe included) 24V DC (globe included)
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Current Draw	12V DC - 5A 24V DC - 3.5A
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Power Consumption	12V DC - 55W 24V DC - 70W
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Rotation	160rpm
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RF Suppression	VDE 0879, Class 3, FM 5.
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Globe to suit	12V H1 (C1255) 24V H1 (C2470)
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Protection	IP5KX, IPX4K and IPX9K
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Note Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit

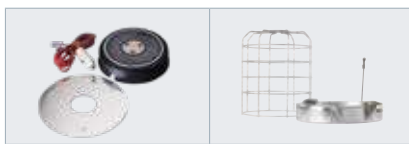
Accessories	1653 Magnetic Mounting Kit ¹ HMWGA220 ² Caution: Mounting restrictions apply. (see page 259) GuardRay Protective Cage ²
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Spare Parts	9.1717.01 ■ Blue Lens 9.1718.01 ■ Red Lens 9.1719.01 ■ Amber Lens 9.1724.01 ■ Amber Lens (optic) 9.1717.54 12V Motor (plastic type) 9.1720.54 24V Motor (plastic type) 9.1717.52 12V Motor with reflector (clip mount) 9.1737.91 Drive Belts (set of 2) 9.1717.23 Reflector Base Assembly (screw mount)
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HELLA does not recommend the magnetic base version for use on a moving vehicle. (see page 259)



1719RET and 1722RET



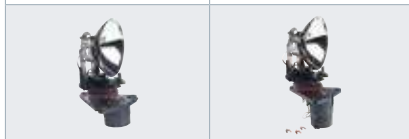
1 P/N 1653

2 P/N HMWGA220



P/N 9.1717.05

P/N 9.1717.54



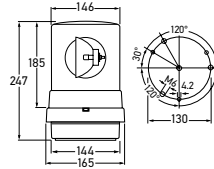
P/N 9.1717.23

P/N 9.1717.52



P/N 9.1737.91

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



KL700 Series

Pre-fitted with sturdy Magnetic Base (Part No. 1653) for quick and secure attachment on vehicle roof.



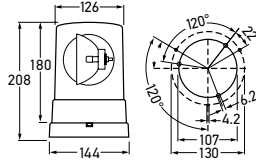
1719MAG	2RL 905 138-001 – Magnetic Mount, 12V DC	■ AMBER
1722MAG	2RL 905 140-001 – Magnetic Mount, 24V DC	■ AMBER
Mounting	Magnetic Mounting on horizontal surfaces. Supplied with 1.5 metre cable and 2-pole plug for the cigarette lighter socket.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Flash Rate	160 +/- 30 rpm.	
RF Suppression	VDE 0879, Class 3, FM5.	
Protection	IP5KX, IPX4K and IPX9K	
Note	Meets shock test MIL-S9-10C, SAE J1318 requirements for class 2, AAMVA certified.	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Spare Parts	<ul style="list-style-type: none"> 9.1718.01 ■ Red Lens 9.1719.01 ■ Amber Lens 9.1724.01 ■ Amber Lens (optic) 9.1717.54 12V Motor (plastic type) 9.1720.54 24V Motor (plastic type) 9.1717.23 Reflector Base Assembly (screw mount) 9.1717.52 12V Motor with reflector (clip mount) 9.1737.91 Drive Belts (set of 2) 	

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 259).

P/N 9.1717.23	P/N 9.1717.52
P/N 9.1717.54	P/N 9.1717.05
P/N 9.1737.91	

KL710 Series

KL710 Revolving Beacon. The halogen globe is replaced from the rear of the reflector eliminating the need to touch the highly polished reflector surface. A twin belt drive ensures a smooth and quiet operation.



1700	2RL 006 295-001 – 12 Volt DC, Fixed Mount	■ BLUE
1703	2RL 006 295-011 – 24 Volt DC, Fixed Mount	■ BLUE
1701	2RL 006 295-321 – 12 Volt DC, Fixed Mount	■ RED
1704	2RL 006 295-331 – 24 Volt DC, Fixed Mount	■ RED
1702	2RL 006 295-301 – 12 Volt DC, Fixed Mount	■ AMBER
1705	2RL 006 295-351 – 24 Volt DC, Fixed Mount	■ AMBER

Mounting Fixed Mounting on horizontal surfaces. 3 x M6 holes for fixing screws. DIN B1: PCD 130mm or 107mm.

Voltage	12V DC (globe included) 24V DC (globe included)
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Current Draw 12V DC - 5A
24V DC - 3.5A

Power Consumption	12V DC - 55W 24V DC - 70W
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Rotation 160 +/- 30 rpm.

RF Suppression	VDE 0879, Class 3, FM 5.
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Globes to suit 12V H1 (C1255)
24V H1 (C2470)

Protection	IP5KX, IPX4K and IPX9K
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Note Amber version shown. Mounting restrictions apply when using HELLA Part No. 1653 - Magnetic Mounting Kit

Accessories	1653 Magnetic Mounting Kit ① HMWGA220 GuardRay Protective Cage ② Caution: Mounting restrictions apply. (see page 259)
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Spare Parts

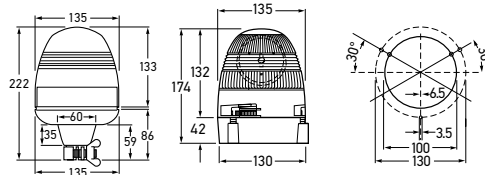
- 9.1708.01 ■ Blue Lens
- 9.1701.01 ■ Red Lens
- 9.1710.01 ■ Amber Lens
- 9.1713.01 ■ Amber Lens (optic)
- 9.1717.52 12V Motor with reflector (clip mount) ②
- 9.1717.23 Reflector Base Assembly (screw mount) ③
- 9.1717.54 12V Motor (plastic type) ⑤
- 9.1720.54 24V Motor (plastic type) ⑤
- 9.1737.91 Drive Belts (set of 2) ⑥

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 259)

EMERGENCY & SIGNAL

① P/N 1653	② P/N HMWGA220
P/N 9.1717.54	P/N 9.1717.23
P/N 9.1717.23	P/N 9.1737.91

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



KL Rotafix Series

Revolving Beacon with impact-resistant Polycarbonate optic lens and rubber base.

Pipe Mount		
1730	2RL 006 846-001 – Pipe Mount, 12V DC	■ AMBER
1731	2RL 006 846-011 – Pipe Mount, 24V DC	■ AMBER
Fixed Mount		
1732	2RL 007 337-001 – Fixed Mount, 12V DC	■ AMBER
1732-24V	2RL 007 337-011 – Fixed Mount, 24V DC	■ AMBER
Magnetic Mount		
1733	2RL 007 337-021 – Magnetic Mount, 12V DC	■ AMBER
Mounting	Mounting on horizontal surfaces. DIN B1: PCD 130mm or 100mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Flash Rate	160 +/- 30 rpm.	
RF Suppression	VDE 0879, Class 3, FM5.	
Protection	IP5K4K9K	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Compliance	R65 (E) 6509 e1 03 2181	
Spare Parts	8007 Connecting piece ① 8007FM Connecting piece - flat mount ② 8007RA Connecting piece - right angle mount ③ 8007SCR 2-Pole Beacon Mount - Screw ④	

HELLA does not recommend the magnetic base version for use on a moving vehicle (see page 259)

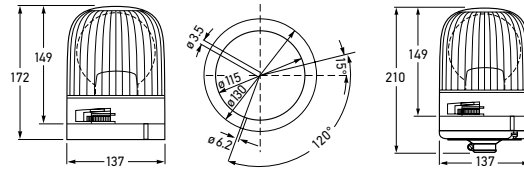


EMERGENCY & SIGNAL



KL Ranger Series

Impact-resistant Polycarbonate lens.



EMERGENCY & SIGNAL



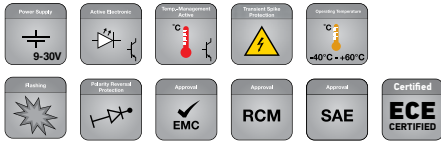
1786RET



1 P/N 9.1786.54

Fixed Mount		
1786	2RL 007 550-001 – Fixed Mount, 12V DC	■ AMBER
1786RET	2RL 007 550-002 – Fixed Mount, 12V DC	■ AMBER
1787	2RL 007 550-011 – Fixed Mount, 24V DC	■ AMBER
Pipe Mount		
1790	2RL 007 553-002 – Flexible Pipe Mount, 12V DC	■ AMBER
Magnetic Mount		
1792	2RL 007 552-001 – Magnetic Mount, 12V DC	■ AMBER
1793	2RL 007 552-011 – Magnetic Mount, 24V DC	■ AMBER
Mounting	Fixed Mounting on horizontal surfaces. DIN B1: PCD 130mm or 115mm.	
Voltage	12V DC (globe included) 24V DC (globe included)	
Current Draw	12V DC - 5.5A 24V DC - 3.5A	
Power Consumption	12V DC - 55W 24V DC - 70W	
Rotation	160 +/- 30 rpm.	
Protection	IP5K4K9K	
RF Suppression	VDE 0879, Class 3, FM5.	
Globes to Suit	12V H1 (C1255) 24V H1 (C2470)	
Spare Parts	9.1786.01 9.1786.54	■ Amber Lens 12V Motor ①
Accessories	8007 8007FM 8007RA 8007SCR	2-Pole Beacon Mount 2-Pole Beacon Mount – Flat 2-Pole Beacon Mount – 90° 2-Pole Beacon Mount – Screw
Compliance	R65	ⓔ 6509 ⓔ 03 2181

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS



Fixed Mount	
2RL 958 308-001	
Magnetic Mount	
2RL 958 308-011	
Warning Patterns	23 flash patterns.
Voltage	Multi-voltage suitable for 12 or 24 volt systems.
Power Consumption	25W*
Max Current	2 A @ 12V DC / 1 A @ 24V DC
Protection	IP 65 (Protected against dust and water jets from all directions)
Cable Length	Fixed: 300mm of sheathed multi-core cable. Magnetic: 3000mm with dual button plug.
Multi-Unit Sync	Over 15 lamps.
Compliance	SAE Class 1 ECE R65 (Pattern 21)

FLASH PATTERNS							
1	Random	7	Mega (Split)	13	Quad (All)	19	Steady 2 (California)
2	Rotating	8	Ultra (Split)	14	Quint (All)	20	Single (2Hz)
3	Single (Split)	9	Single Quad (Split)	15	Mega (All)	21	Double (2Hz) (ECE R65)
4	Double (Split)	10	Single H/L (Split)	16	Ultra (All)	22	Triple (2Hz)
5	Quad (Split)	11	Single (All)	17	Single Quad (All)	23	Quad (2Hz)
6	Quint (Split)	12	Double (All)	18	Single H/L (All)		

LED Micro Light Bar Amber Lens - MLB100 Fixed and Magnetic Mount

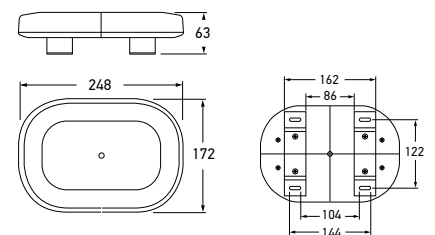
The HELLA MLB100 amber mini light bar is a compact, versatile lamp suitable for numerous applications. This LED lamp is characterised by its low profile, and wide variety of flash patterns. 30 high intensity LEDs create a 360 degree light spread while consuming only 2 amps at 12VDC. The HELLA MLB100 is available in fixed mount and magnetic mount, and operates with both 12 and 24 volt systems.



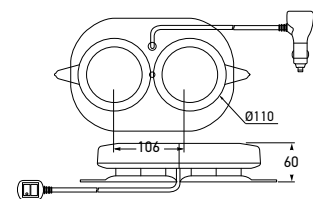
P/N 2RL958308001
LED Micro Light Bar, Amber Lens, Fixed mount



P/N 2RL958308011
LED Micro Light Bar, Amber Lens, Magnetic Mount



Fixed mount configuration

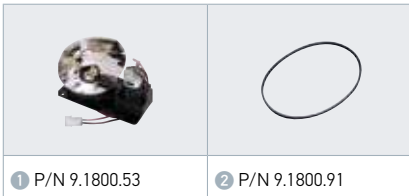
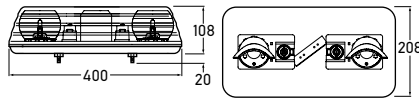


Magnetic mount configuration

EMERGENCY & SIGNAL

Mini Light Bar

Compact, Low-Profile Light Bar with 2 rotating modules. Fitted with impact-resistant Polycarbonate lens, dual-speed drive belts and stainless-steel bearings for maximum durability. Modular construction enables easy service and exchange of components.



Fixed Mount		
1811A	2RL 905 146-001 – Surface Mount, 12V DC	■ AMBER
Magnetic Mount		
1811MAGA	2RL 905 146-011 – Magnetic Mount, 12V DC	■ AMBER
Mounting	Surface Mount (2 x mounting bolts included). Magnetic Mounting on horizontal surfaces (2 x cushions and magnets included). Supplied with 2.7m cable and 2-pole plug for cigarette lighter or standard DIN ISO sockets.	
Voltage	12V DC (globes included)	
Globe to suit	2 x 12V H1 (C1255)	
Note	HELLA Light Bars may be converted to 24V DC input by changing the globes supplied and adjusting the belt rotation speed. Other lens colours (eg. Red and Blue) can be supplied at very short notice.	
Spare Parts	9.1811A.01 9.1800.53 9.1800.91	■ Amber Lens – 400mm Rotator Module Assembly ① Drive Belt ②

EMERGENCY LIGHTING AND SIGNAL WARNING LAMPS

1653	8HG 905 129-001 – Magnetic Mounting Kit - KL700 and KL710	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes sturdy magnetic base (145mm dia.), 1.5m cable and 2-pole plug for the cigarette lighter socket.	
Height	35mm.	
Suits	All KL700 and KL710 Series Revolving Lamps	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- KL700 and KL710**



8027	8HG 950 835-001 – Magnetic Mounting Kit - Firebolt Plus	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm.	
Suits	All Firebolt Plus Series Strobe Lamps.	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- Firebolt Plus**



8028	8HG 950 836-001 – Magnetic Mounting Kit - Pulsator	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (165mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm.	
Suits	All Pulsator Series Strobe and Flashing Lamps.	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- Pulsator**



8029	8HG 950 837-001 – Magnetic Mounting Kit - 602 and 851 Series	KIT
Description	Complete Magnetic Mounting Kit to allow quick and secure attachment on vehicle roof. Kit includes magnetic base (82mm dia.), spiral cable (extendable to 2m) and 2-pole plug for the cigarette lighter socket.	
Height	11mm	
Suits	All 602 and 851 Series Strobe Lamps.	
Caution	Due to HELLA being unable to control the condition of the mounting surface or the potential forces that may occur during acceleration and deceleration, fitment of warning lamps with a magnetic base cannot be recommended for use on moving vehicles.	

**Magnetic Mounting Kit
- 602 and 851 Series**



2-Pole Beacon Mount



8007	8HG 002 365-001 – 2-Pole Beacon Mount	KIT
Description	2-Pole Beacon Mount for pipe mounting. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



8007FM	8HG 006 294-011 – 2-Pole Beacon Mount - Flat	KIT
Description	2-Pole Beacon Mount with bracket for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



8007RA	8HG 006 294-111 – 2-Pole Beacon Mount - 90°	KIT
Description	2-Pole Beacon Mount with 90-degree bracket (50mm) for attachment on flat cabin roof surfaces. Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

2-Pole Beacon Mount



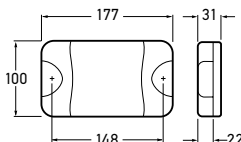
8007SCR	8HG 006 294-091 – 2-Pole Beacon Mount - Screw	KIT
Description	2-Pole Beacon Mount with screw attachment (M24 thread). Incorporates electrical connection.	
Suits	Suitable for use with KL600, KL7000, KLX7000, KL Rotaflex and KL Ranger Series Pipe Mount Revolving and Strobe Lamps.	

GuardRay® Protective Cages

GuardRay® cages are hot-dip galvanised for corrosion protection and fabricated from heavy welded steel wire with bases pre-drilled to accept the standard mounting holes of all our popular Warning Beacons and Bases. Beacons mount inside the universal base, and the wire cage is then clamped to the base. A nylon lanyard stops the cage from falling during servicing.



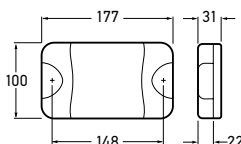
HMWGA160	9GH 910 181-011 – Protective Cage - 160mm		GALVANISED
HMWGA220	9GH 910 181-021 – Protective Cage - 220mm		GALVANISED
Dimensions	HMWGA100	180 x 100mm (d x h)	
	HMWGA160	180 x 160mm (d x h)	
	HMWGA220	180 x 220mm (d x h)	
Suits	HMWGA160	KL7000LED OptiRay 2.0/2.1 Pulsator 551 RotaLED Series 602 Series 6750	
	HMWGA220	DuraRay 4.0 KL700 KL710 KL7000 KLX7000 OptioRay-E Series 851 UltraRay 2.0/2.1	



95906080	2XD 959 060-801 – Surface Mount, Dual Function, Multivolt	■ RED
95907080	2XD 959 070-801 – Surface Mount, Dual Function, Multivolt	■ AMBER
Mounting	Surface Mount (screw caps and mounting bushes included).	
Voltage	Multivolt (9-33V DC)	
Power Consumption	Circuit 1 - 9W Circuit 2 - 2W	
Lead Length	2.5 metres	
Spare Part	9.2330.08	Screw Cap and Boss Kit

DuraLED Warning Signal Lamp Dual Function

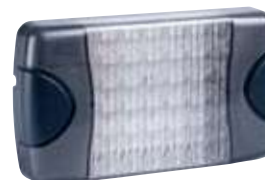
High-intensity, Signal Optic LED Lamp suitable for use as a warning signal lamp in conjunction with many primary vehicle warning lamp systems.



95906050	2XD 959 060-501 – Surface Mount, Dual Function, Multivolt	■ WHITE
Mounting	Surface Mount (screw caps and mounting bushes included).	
Voltage	Multivolt (9-33V DC)	
Power Consumption	6W	
Lead Length	2.5 metres	
Spare Parts	9.2330.08	Screw Cap and Boss Kit

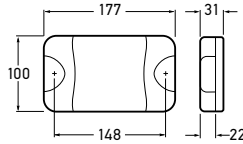
DuraLED Warning Signal Lamp

High-intensity LED Warning Signal Lamp for specialty applications featuring anthracite grey ends and black caps.



DuraLED Multi-flash Signal Warning Lamp

Multivolt Warning Lamps for emergency vehicles. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.

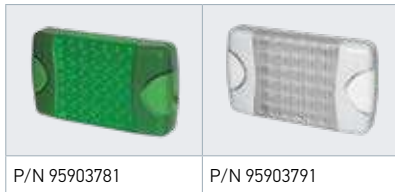


95903701	2XD 959 037-012 – Surface Mount, MultiFLASH®, Multivolt	RED
95903711	2XD 959 037-112 – Surface Mount, MultiFLASH®, Multivolt	AMBER
95903761	2XD 959 037-612 – Surface Mount, MultiFLASH®, Multivolt	BLUE
95903781	2XD 959 037-812 – Surface Mount, MultiFLASH®, Multivolt	GREEN
95903791	2XD 959 037-912 – Surface Mount, MultiFLASH®, Multivolt	WHITE

Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC.	
Power Consumption	9W continuous (less in flashing modes).	
Protection	Reverse polarity and 5000 watt Transient Voltage Suppressor (TVS) IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Spare Parts	9.2330.10	Screw Cap Red (Pack of 4)
	9.2330.16	Screw Cap Amber (Pack of 4)
	9.2330.12	Screw Cap Blue (Pack of 4)
	9.2330.13	Screw Cap Green (Pack of 4)
	9.2330.11	Screw Cap White (Pack of 4)
Compliance	SAE J595 Class 1 (Red and amber versions) EMC 03 1925 ECE-R10	



P/N 95903711 P/N 95903761



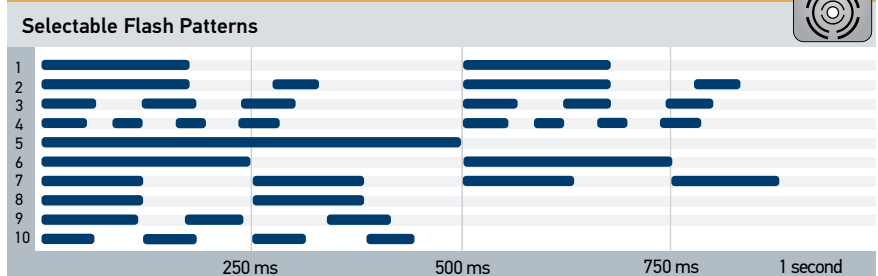
P/N 95903781 P/N 95903791



P/N 9.2330.10

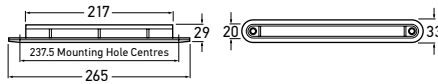
EMERGENCY & SIGNAL

HELLA MULTI-FLASH LAMP OPERATING MODES



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).



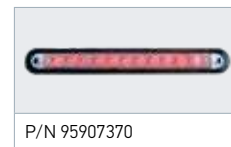
LED Wide Rim Strip Warning Lamp

Covert wide rim strip LED Signal Warning Lamp available in red and blue colour variants. Optic appears clear until illuminated. Includes gasket, screws and screw caps.

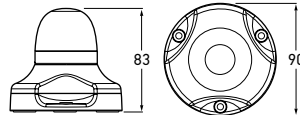


95907360	2XD 959 073-602 – Recess Mount, 12 Volt DC	■ BLUE
95907365	2XD 959 073-652 – Recess Mount, 24 Volt DC	■ BLUE
95907370	2XD 959 073-702 – Recess Mount, 12 Volt DC	■ RED
95907375	2XD 959 073-752 – Recess Mount, 24 Volt DC	■ RED

Mounting	Two hole recess mount. May be mounted horizontally or vertically.	
Power Consumption	2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of multi-core cable.	
Spare Parts	9GD959155507	Wide Rim Seal
	9HD959182007	Clear Screw Cap
	9HD959182037	Black Screw Cap



This lamp requires an external flasher unit such as P/N 3040. See page 91 for strip lamp accessories.



On/Off LED Warning Signal Lamps

Multi-purpose LED 360° Warning Lamps with Nylon (PA12) lens available in four signal colours and white. Optics appear clear until illuminated.

98091004	2XA 980 910-042 – Surface Mount, Multivolt	■ WHITE
98091024	2XA 980 910-242 – Surface Mount, Multivolt	■ GREEN
98091044	2XA 980 910-442 – Surface Mount, Multivolt	■ RED
98091064	2XA 980 910-642 – Surface Mount, Multivolt	■ AMBER
98091074	2XA 980 910-742 – Surface Mount, Multivolt	■ BLUE

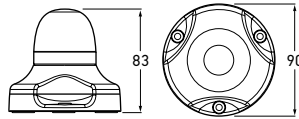
Mounting	Upright mounting with three point mount.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC.	
Power Consumption	5W	
Protection	Reverse polarity and voltage spike protection. IP 67 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	EMC 03 1679 ECE-R10	



See page 264 for multi-flash versions. This lamp requires an external flasher unit such as P/N 3040.

LED 360° Multi-flash Signal Lamp

Multi-purpose LED 360° Warning Lamp with clear Nylon (PA12) lens, available in four signal colours and white. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison. Optic appears clear until illuminated.



98091100	2XD 980 911-002 – Surface Mount, Multivolt	WHITE
98091120	2XD 980 911-202 – Surface Mount, Multivolt	GREEN
98091140	2XD 980 911-402 – Surface Mount, Multivolt	RED
98091160	2XD 980 911-602 – Surface Mount, Multivolt	AMBER
98091170	2XD 980 911-702 – Surface Mount, Multivolt	BLUE

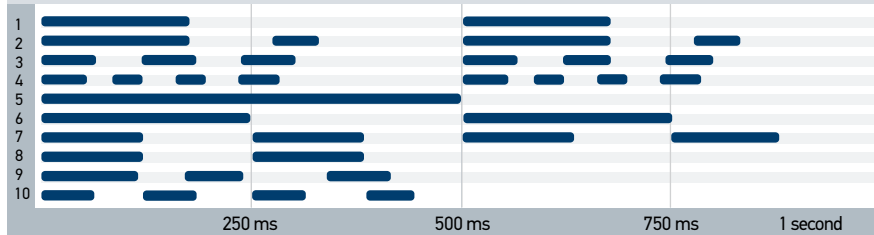
Mounting	Upright mounting with three point mount.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC.
Power Consumption	Less than 5W (less in flashing modes).
Protection	Reverse polarity and voltage spike protection. IP 67 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Nylon (PA12)
Compliance	EMC 03 1679 ECE-R10
Lamps shown illuminated (right).	



EMERGENCY & SIGNAL

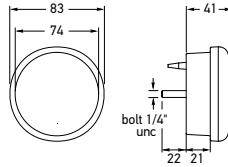
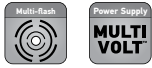
HELLA MULTI-FLASH LAMP OPERATING MODES

Selectable Flash Patterns



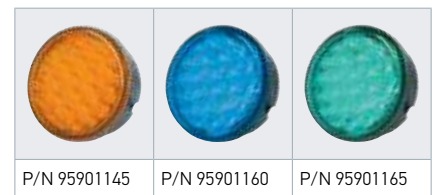
Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).



LED 83mm Round Multi-flash Signal Lamp

83mm diameter round LED Signal Lamps with single bolt mount for emergency vehicles. The HELLA multi-flash range of warning lamps have 10 programmable flash modes and can be synchronised to flash alternately or in unison.



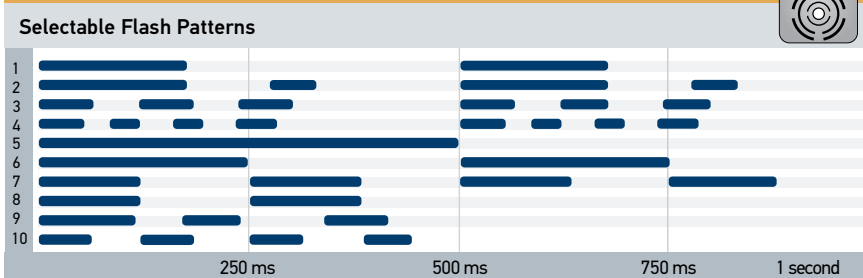
P/N 95901145 P/N 95901160 P/N 95901165

95901140	2XD 959 011-402 – Flush Mount, Multivolt	RED
95901145	2XD 959 011-452 – Flush Mount, Multivolt	AMBER
95901160	2XD 959 011-602 – Flush Mount, Multivolt	BLUE
95901165	2XD 959 011-652 – Flush Mount, Multivolt	GREEN

Mounting	Single bolt 1/4" stainless UNC thread. Nut and washer supplied.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts DC.
Power Consumption	6W continuous (less in flashing modes).
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Compliance	EMC e4 03 1681 ECE-R10

See page 89 for mounting accessories.

HELLA MULTI-FLASH LAMP OPERATING MODES



Flashing Options	
Steady state	Lamp operates as a continuous ON signal
Independent flash	Lamp operates from an external flashing system
Flash state	Lamp operates in the flash mode preselected by the user
Blitz state	Lamp operates in a burst of quad flashes (pattern 4)

The blitz mode overrides the other operating modes and is triggered by switching the blue cable to negative (-).



Interior/Exterior Lighting

HELLA LED luminaires provide superior quality lighting solutions for reliable performance year after year.





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LED LIGHTING TECHNOLOGY - ENERGY EFFICIENT CRISP WHITE LIGHT

HELLA LED based luminaires are sophisticated opto-electronic devices designed to be highly energy efficient and durable, and are a future-proof, low 'Cost-of-Ownership' solution.



LED based lighting is fast advancing to becoming the logical solution for the cost conscious operator who considers 'Cost-of-Ownership' rather than just the initial purchase price. To design efficient LED luminaires, many factors need to be considered. The LED itself, optics, optic materials, thermal design and drive electronics. These are among the many factors that add up to result in an efficient and durable luminaire.

Lens, Optic Technology and Eye Safety

To take advantage of the ever increasing efficacy of the most advanced LEDs, efficient optic design is essential to capture as much of the luminous flux emitted by the LED as possible. An evenly illuminated surface area is evidence of competent optic design. With significant advances in LED brightness, eye safety considerations are increasingly important.

For interior lights it is essential for high power LEDs to be coupled with optic designs that protect the eye's retina. It is desirable for a large portion of the lens area of a luminaire to be evenly illuminated via an efficient optic rather than using a bundle of LEDs without any optic. Easily visible LEDs inside a luminaire without any optic or lens protection can cause a degree or even significant eye discomfort if viewed directly.

A recent US Department of Energy (DOE) report warns of poorly designed LED luminaires, associating low frequency 'Flicker' with the possibility to trigger epileptic attacks in parts of the population that are susceptible.

Well designed LED lighting systems do carry a higher initial price compared to many other lamps now on offer. For most applications, higher efficiency and long term reliability of a competently designed and manufactured LED luminaire is a convincing Value Proposition.

Heat and Thermal Management

Competent and well engineered thermal management is essential for the long-term durability of HELLA LED luminaires. A common misconception is that LEDs do not generate heat. LEDs consume power and some of this power is also converted to heat, even in the most energy efficient LEDs.

In contrast to incandescent lamps however, LEDs do not like to 'run hot'. As a rule of thumb the hotter an LED runs, the faster it will degrade and in extreme cases result in a much lower light performance and shorter service life.

A noticeably 'hot to touch' exterior surface of a high power LED interior lamp provides some indication that the light output of the device will deteriorate fast, sometimes within a few hundred hours. Well engineered LED devices will operate 'cool' or 'warm' to the touch after many hours of operation. HELLA has many years of technical expertise in developing good thermal designs, when matched with superior optics and electronic design it ensures the long term durability of all our LED lighting products with minimal degradation over many years of service.

Highly efficient white LED luminaires are becoming a solution that make ecological and economic sense for an ever increasing range of applications.



In depth design and engineering know how is required to produce durable products with reliable performance year after year.



Reliability

Due to the solid state nature of LEDs there are no filaments to break, however LEDs do require precise current control, overvoltage and spike protection to avoid any premature damage.

For LED luminaire designers and manufacturers, in depth design and engineering know how is required to produce durable products with reliable performance year after year.

Considerations such as hermetically sealed housings, sealed cable entries, effective electronic protection, shock, vibration and impact resistant components all contribute towards long term reliability. Compared to incandescent lighting, where a filament inside a globe may break at any moment, HELLA LED lighting is designed as a reliable Fit and Forget solution.

Colour Temperature and Rendering

LED based lighting has had a reputation for appearing 'cold' and 'blue' due to their phosphorous coating technology.

However today's high efficacy devices can rival traditional incandescent light sources for colour and ambience. When selecting LED interior lighting, colour temperature is an important consideration.

1850 K	Candle
2800 K	Halogen Globe (Incandescent Lamp)
2500-3200 K	Warm White LED
4600K-5600 K	Crisp White LED
6500 K	Daylight

Colour temperature is measured in Kelvin (K) and describes the effect of heating an object until it glows incandescently. The emitted radiation, and apparent colour changes in proportion to the temperature; envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

HELLA describes higher colour temperatures (4600 K to 5600 K) as 'crisp white' and lower colour temperatures as 'warm white'.

'Neutral white' is considered around 4200 K range. Crisp white is recommended for visual tasks, work areas and exterior lighting.

Warm white is suggested for interior spaces as it adds life and vibrancy to people and objects. It is considered more flattering to skin tones or fabrics and makes food look fresh and attractive.

**NEW DIMMABLE LOGOS
WHAT DO THEY MEAN?**

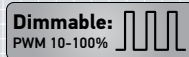
Logos used throughout the Interior/Exterior section to help quick referencing of important product features are explained below.



Light intensity is reduced as the DC input voltage is reduced below the lamps specified operating voltage.



Light intensity is controlled through the lamp's own internal circuitry via in-built buttons, an external DC power source and a standard switch. See specific lamp instructions for further information.



Light intensity is adjusted between 10-100% using a high frequency PWM (pulse width modulation) DC power supply, with adjustable duty cycle control.



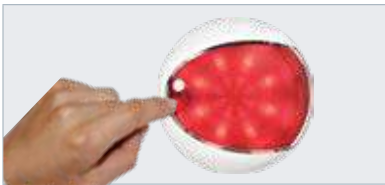
Light intensity can be switched between 100% and a lower level factory pre-set value, usually via an additional cable input supplied with the lamp using a positive feed from the DC power supply within the lamps operating voltage range.

EuroLED® White/Red Touch Lamps

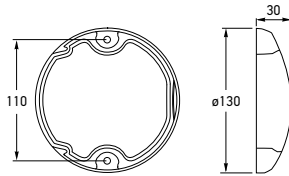
Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white or red pads for on/off, hold finger to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.



P/N 2JA 959 950-021



EuroLED® Touch red night light function shown



2JA 959 950-011 - Black Shroud		WHITE/RED
2JA 959 950-021 - White Shroud		
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	White: 4W Red: 1.5W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White	
Compliance	CE	
See page 88 for EuroLED® accessories.		



P/N 8HG 959 952-002



P/N 8HG 959 952-012

INTERIOR/EXTERIOR

EuroLED®

Advanced LED Lamps with touch sensitive switching. Power saving and ultra durable.

Lighting control is beautifully simple. Touch the colour pad for red light and the white pad for white light. On the dual colour versions, hold your finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release your finger on the light level required.

Dual colour EuroLED® Touch lamps can also be remotely operated from multiple points with 'off the shelf' ON/OFF/ON momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same dimming level.

Light levels are 'remembered' by the lamps circuitry, even when a vehicle's batteries are turned off.



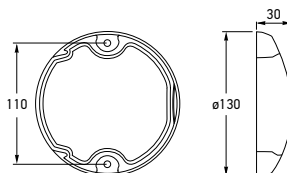
Designed and manufactured in New Zealand, EuroLED® Touch lamps provide red/white, or white only light using the latest completely sealed touch sensitive technology.



The lamp will always turn on at the colour intensity previously set, regardless of power interruption.

EuroLED® Touch power consumption is 4W on white (0.33A @ 12V) and less than 1.5W on red (less than 0.125A @ 12V) to provide significant power savings.

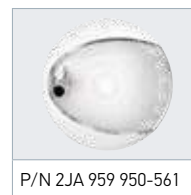
The durability of EuroLED® Touch Lamps is outstanding. Each lamp is completely waterproof, impact and shock resistant, for an ultra long service life. Multivolt circuitry provides optimum brightness across a range of input voltages from 9-33V DC, even under severe voltage fluctuations.



2JA 959 950-551 - Black Shroud		■ WHITE
2JA 959 950-561 - White Shroud		
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White	
Compliance	CE	
See page 88 for EuroLED® accessories.		

EuroLED® White Touch Lamps

White single LED lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. Provides ultra-long service life and is shock and vibration proof.



P/N 2JA 959 950-561



95982050	2JA 959 820-502	■ WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	4W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Accessories	8HG 959 952-002 Mounting spacer - Black 8HG 959 952-012 Mounting spacer - White 9HD 959 027-007 EuroLED® Cover - Black 9HD 959 027-017 EuroLED® Cover - White	
Compliance	CE	
See page 88 for EuroLED® accessories.		

EuroLED® Lamp

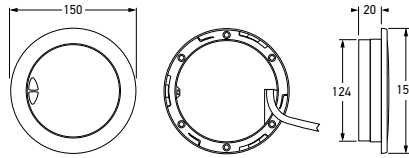
White single LED Lamp with clear lens. Provides ultra long service life and is shock and vibration proof. Includes a black and a white rim. No switching or dimming.



INTERIOR/EXTERIOR

EuroLED® Touch 150 Downlights - Dual Colour

Dual colour EuroLED® Touch Lamps with dimming and momentary switch control. Touch the white pad for on/off, hold finger on the pad to cycle through dimming levels. Provides ultra long service life and is shock and vibration proof. Clear lens.



2JA 980 630-001 - White Plastic Rim	■ WHITE/RED
2JA 980 630-011 - Polished Stainless Steel Rim	
2JA 980 630-101 - White Plastic Rim	■ WARM WHITE/RED
2JA 980 630-111 - Polished Stainless Steel Rim	

Mounting	Recess mount, 124mm hole.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	White: 4W Red: 1.5W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE



EuroLED® Touch 150 Downlights - Single Colour

White single LED Lamp with touch switching and clear lens. Touch the white pad to turn on and the black pad to turn off. No dimming. Provides ultra long service life and is shock and vibration proof.



2JA 980 630-501 - White Plastic Rim	■ WHITE
2JA 980 630-511 - Polished Stainless Steel Rim	
2JA 980 630-601 - White Plastic Rim	■ WARM WHITE
2JA 980 630-611 - Polished Stainless Steel Rim	

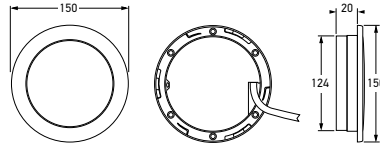
Mounting	Recess mount, 124mm hole.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE



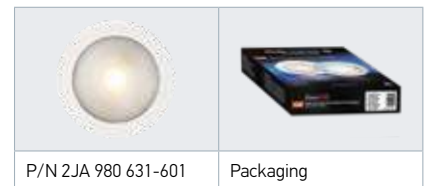
Sealed cable entry

EuroLED® 150 Downlights

White single LED Lamp with clear lens.
Provides ultra long service life and is shock and vibration proof. No switching or dimming.

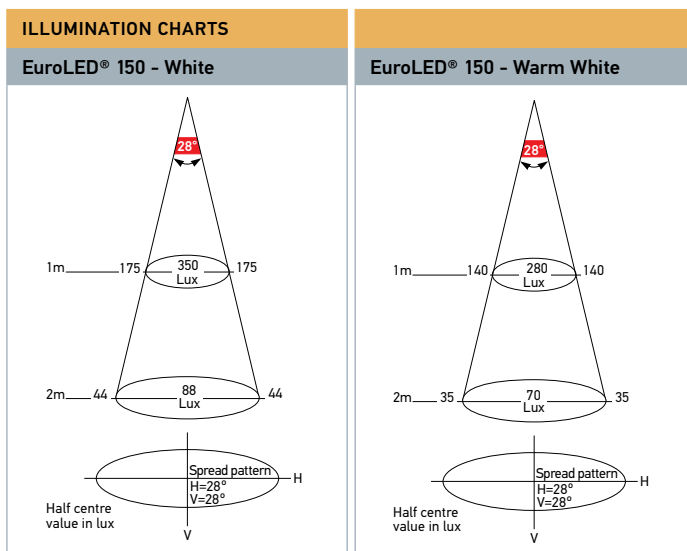


2JA 980 631-501 - White Plastic Rim	■ WHITE
2JA 980 631-511 - Polished Stainless Steel Rim	
2JA 980 631-601 - White Plastic Rim	■ WARM WHITE
2JA 980 631-611 - Polished Stainless Steel Rim	
Mounting	Recess mount, 124mm hole.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE



P/N 2JA 980 631-601

Packaging



Illumination Charts Explained

Our light performance charts show luminance and spread in an easy to read format. At the top is the spread, with the boundary threshold being defined as half the peak luminance. While there is light beyond the indicated angles, the majority of light will be inside the cone shown.

The difference between lux (illuminance) and lumen (luminous flux) is that lux takes into account the area over which the luminous flux is spread. Accordingly the lux figure decreases with distance. Most interior lamps will be installed at around the 2-2.5 metre height.

As a guideline, some 40-100 lux is required for corridors and passageways, around 300 lux for reading and 500-800 lux for offices.

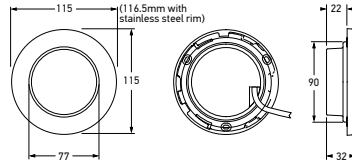
The spread pattern may not be designed symmetrical so the spread horizontally (H) and vertically (V) are given.

Luminance is additive, meaning overlapping light patterns or multiple lamps lighting the same surface add their luminance.

INTERIOR/EXTERIOR

EuroLED® 115 Downlights - With White Spacer

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



2JA 980 820-002 - White Plastic Rim	■ WHITE
2JA 980 820-012 - Polished Stainless Steel Rim	
2JA 980 820-102 - White Plastic Rim	■ WARM WHITE
2JA 980 820-112 - Polished Stainless Steel Rim	
Mounting	Recess mount, 90mm hole. Surface mount via optional spacer.
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts.
Power Consumption	4.5W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE

EuroLED® 115 Downlights - With White Spacer and Switch

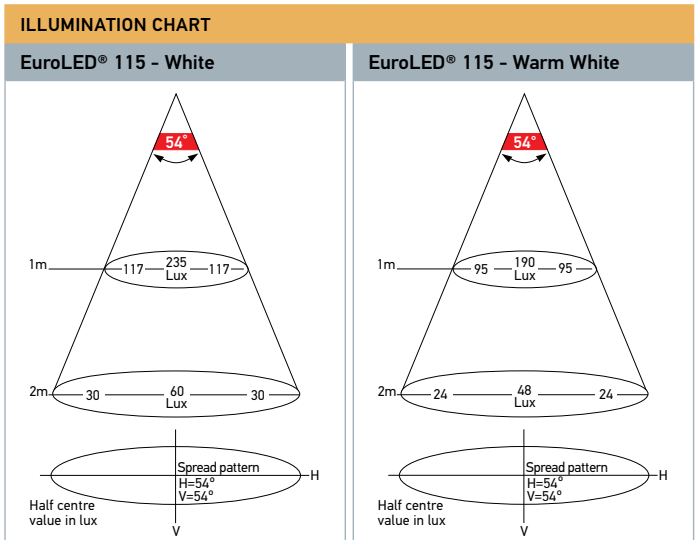
Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.

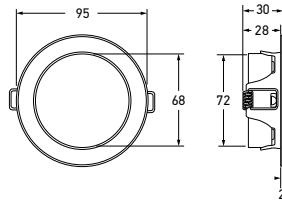


2JA 980 828-002 - White Plastic Rim	■ WHITE
2JA 980 828-012 - Polished Stainless Steel Rim	
2JA 980 828-102 - White Plastic Rim	■ WARM WHITE
2JA 980 828-112 - Polished Stainless Steel Rim	
Mounting	Recess mount. Surface mount via spacer.
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts.
Power Consumption	4.5W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE



EuroLED® 115 Downlights with switch, expanded view.



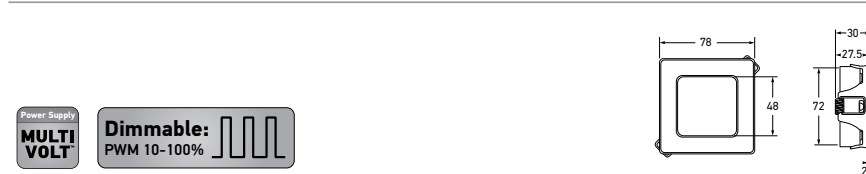


2JA 958 340-011		WHITE
2JA 958 340-101		WHITE/RED
2JA 958 340-111		WHITE/BLUE
2JA 958 340-021		WARM WHITE
2JA 958 340-121		WARM WHITE/RED
2JA 958 340-131		WARM WHITE/BLUE

Mounting	Recess mount, 76mm diameter hole. Spring clip.
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.
Power Consumption	6W
Protection	IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 120mm of cable.
Compliance	CE

EuroLED® 95 Gen 2 Round Down Lights - Recess Mount With Spring Clip

The next generation of LED high intensity down lights offers an improved class leading efficiency and durability. The smooth diffused lens creates a comfortable and uniform appearance with over 420 lumens of actual light in a broad and even illumination.

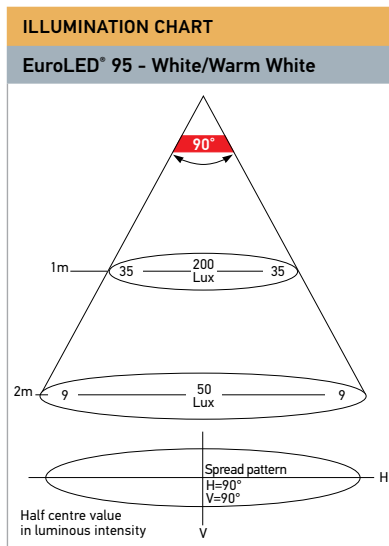


2JA 958 340-511		WHITE
2JA 958 340-601		WHITE/RED
2JA 958 340-611		WHITE/BLUE
2JA 958 340-521		WARM WHITE
2JA 958 340-621		WARM WHITE/RED
2JA 958 340-631		WARM WHITE/BLUE

Specifications as per P/N 2JA 958 340-011 above.

EuroLED® 95 Gen 2 Square Down Lights - Recess Mount With Spring Clip

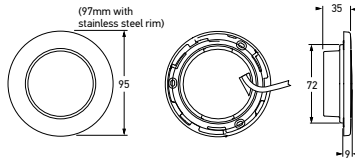
The next generation of LED high intensity down lights offers an improved class leading efficiency and durability. The smooth diffused lens creates a comfortable and uniform appearance with over 420 lumens of actual light in a broad and even illumination.



INTERIOR/EXTERIOR

EuroLED® 95 Downlights - Recess Mount

Round LED High Intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



2JA 980 940-001 - White Plastic Rim	■ WHITE
2JA 980 940-011 - Polished Stainless Steel Rim	
2JA 980 940-101 - White Plastic Rim	■ WARM WHITE
2JA 980 940-111 - Polished Stainless Steel Rim	

Mounting	Recess mount, 72mm hole. Screw mount.
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE

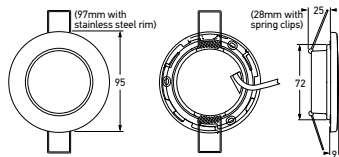


P/N 2JA 980 940-111

Packaging

EuroLED® 95 Downlights - Recess Mount With Spring Clip

Round LED high intensity Downlights offering class leading efficiency and durability. Supplied with white or polished stainless steel rim to suit.



2JA 980 940-201 - White Plastic Rim	■ WHITE
2JA 980 940-211 - Polished Stainless Steel Rim	
2JA 980 940-301 - White Plastic Rim	■ WARM WHITE
2JA 980 940-311 - Polished Stainless Steel Rim	

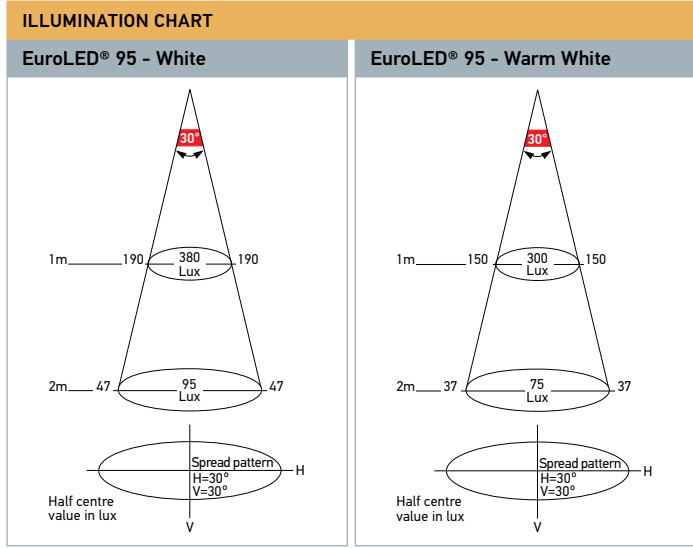
Mounting	Recess mount, 72mm hole. Spring clip.
Voltage	Multivolt for optimum brightness at input voltage from 10 to 33 volts.
Power Consumption	4W
Protection	Reverse polarity and transient spike circuit protection. Sealed against dust and water ingress.
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.
Compliance	CE

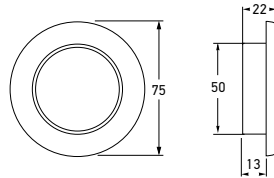


P/N 2JA 980 940-311

Packaging

INTERIOR/EXTERIOR





EuroLED® 75 Down Lights - Recess Mount

This down light features the latest in LED technology and is available in two white colour temperatures. Both the cool white and the warm white option feature a smooth, evenly distributed illumination and an optic specifically designed to reduce individual light source glare, which can lead to discomfort and eye strain. Each down light includes a black and a white plastic rim.

2JA 958 110-031 - 12 Volt DC	■ WHITE
2JA 958 110-131 - 24 Volt DC	
2JA 958 109-031 - 12 Volt DC	■ WARM WHITE
2JA 958 109-131 - 24 Volt DC	
Mounting	Recess mount, 50mm diameter hole.
Voltage	12V DC or 24V DC
Power Consumption	<3W
Protection	IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 130mm of cable
Supplied Rims	95950590 Black plastic rim - EuroLED® 95 95950585 White plastic rim - EuroLED® 95
Compliance	
Additional rims and housings are available see page 295 & 297.	

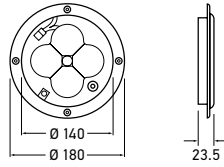


P/N 2JA 958 109-031

Black and white supplied plastic rims

CargoLED Interior Lamp

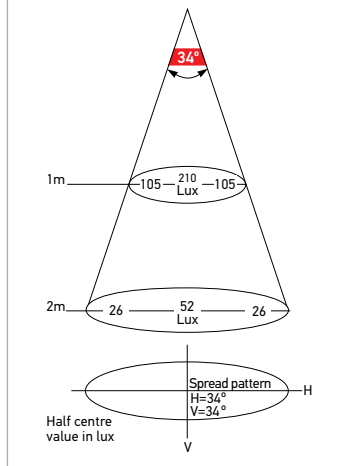
Universal LED Interior Lamp featuring state of the art design and robust construction. Equipped with advanced Luxeon Power LED technology and clear acrylic lens for optimum light distribution without glare. The dust-proof housing is made from high quality aluminium and ABS ensuring maximum durability and long service life, even in extremely cold or humid environments. Fully sealed to withstand high-pressure washing.



2604	2JB 343 227-002	WHITE
Mounting	Flush Mount	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts.	
Power Consumption	6W	
Temperature Range	-40°C to + 60°C	
Protection	Fully sealed against dust and moisture to IP69	
Cable Length	Pre-wired with 310mm of sheathed multi-core cable.	
Compliance		

ILLUMINATION CHART

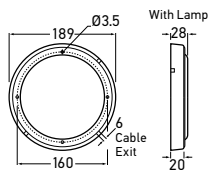
P/N 2604



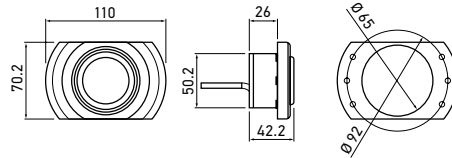
INTERIOR/EXTERIOR

CargoLED Mounting Spacer

Mounting Spacer designed to suit all CargoLED interior lamps. Enables surface mount with side cable exit.



9.2604.05	9XD 344 118-102
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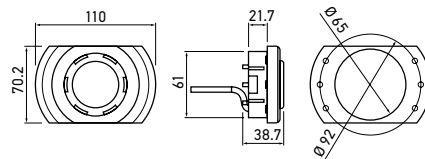
2646	2JA 343 680-172	■ WHITE
Mounting	Surface Mount. Suitable for horizontal and vertical installation (fastening springs and screw caps included).	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 33 volts.	
Power Consumption	LED 2.5W CELIS® 0.5W	
Protection	Fully sealed against dust and moisture to IP6K9K. Flame retardant to UL94HB.	
Cable Length	Pre-wired with 200mm of sheathed multi-core cable.	
Compliance		

SpotLED Blue CELIS® Interior Lamp – Fixed

Fixed LED Spotlight featuring impact-resistant Polycarbonate lens and advanced LED technology for superior light distribution. The modern blue CELIS® light ring provides additional ambient illumination. Dust-proof and water-resistant. Main light and ambient light can only be activated separately.



Blue CELIS® - Fixed light ring



2647	2JA 343 700-272	■ WHITE
Mounting	Surface Mount. Suitable for horizontal and vertical installation (screw caps included).	
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts.	
Power Consumption	LED 2.5W CELIS® 0.5W	
Protection	Sealed against dust to IP3X.	
Cable Length	Pre-wired with 200mm of sheathed multi-core cable.	
Compliance		

SpotLED Blue CELIS® Interior Lamp – Adjustable

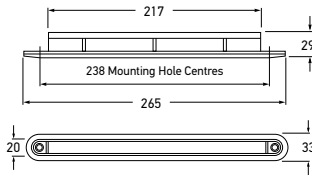
Adjustable LED Spotlight featuring impact-resistant Polycarbonate lens and advanced LED technology for superior light distribution. The modern blue CELIS® light ring provides additional ambient illumination. Adjustable spot with 20-degree angle to each side.



Blue CELIS® - Adjustable light ring

LED White Interior/Exterior Strip Lamps

White LED Interior Lamp with clear UV-resistant acrylic lens. Ideal for steps, interior or exterior courtesy lighting and storage areas.

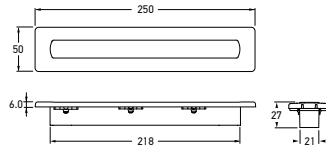


P/N 2641HB

2641-12V	2JA 959 073-011 - 12 Volt DC	■ WHITE
2641-24V	2JA 959 073-211 - 24 Volt DC	
2641HB-12V	2JA 959 076-501 - 12 Volt DC	HIGH BRIGHTNESS WHITE
2641HB-24V	2JA 959 076-631 - 24 Volt DC	
Mounting	Recess mount.	
Power Consumption	<2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Spare Part	959 155-507	Gasket

LED Interior/Exterior Strip Lamps

LED Lamp with clear UV impact -resistant lens and attractive stainless steel cover. Stainless steel bezel features a unique internal tab lock for secure attachment and no visible fastenings.



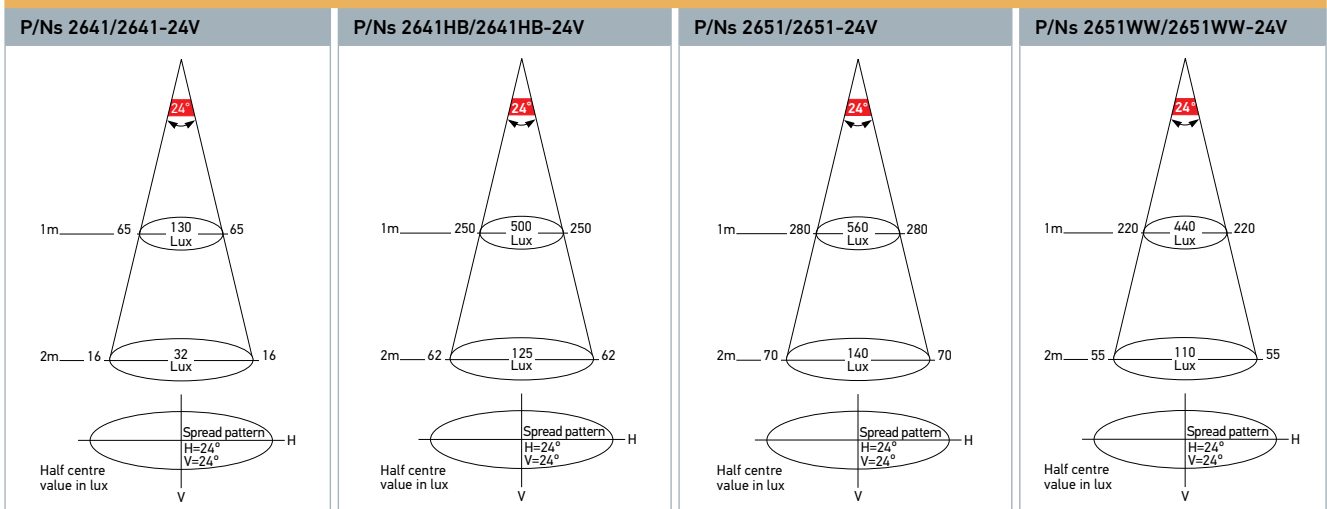
P/N 2651WW

Shown expanded

2651	2JA 980 681-012 - 12 Volt DC	■ WHITE
2651-24V	2JA 980 681-512 - 24 Volt DC	
2651WW	2JA 980 681-112 - 12 Volt DC	■ WARM WHITE
2651WW-24V	2JA 980 681-612 - 24 Volt DC	
Mounting	Recess mount.	
Power Consumption	<2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	

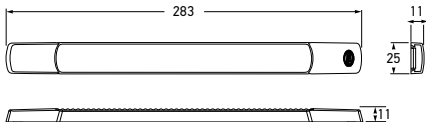
INTERIOR/EXTERIOR

ILLUMINATION CHARTS



LED Interior/Exterior Strip Lamps - Surface Mount

LED Lamp featuring a soft white colour temperature and diffused lens for an evenly spread light. Fully sealed for complete protection against water and dust ingress.



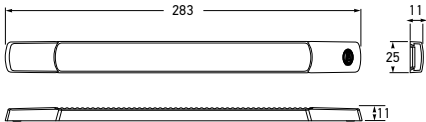
2652	2JA 980 881-021 - 12 Volt DC	■ WHITE
2652WW	2JA 980 881-221 - 12 Volt DC	
2652-24V	2JA 980 881-131 - 24 Volt DC	■ WARM WHITE
Mounting	Surface mount.	
Power Consumption	<3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	

See page 91 for surface mount strip lamp screw caps.



LED Courtesy Strip Lamps - Surface Mount

These LED Courtesy Surface Mount Strip Lamps feature a shallow 11mm profile and completely sealed housings. Available in blue and red colour variants.



2JA 980 881-402 - 12 Volt DC	■ BLUE	
2JA 980 881-502 - 24 Volt DC		
2JA 980 881-602 - 12 Volt DC	■ RED	
2JA 980 881-702 - 24 Volt DC		
Mounting	Surface mount.	
Power Consumption	<2W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 0.5m of sheathed multi-core tinned cable.	

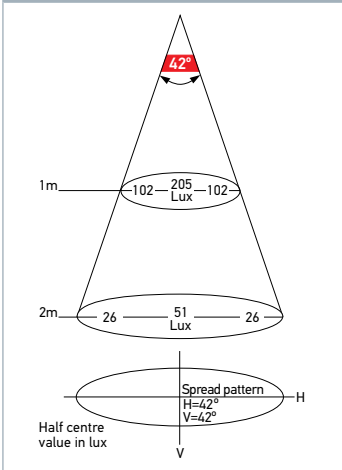
See page 91 for surface mount strip lamp screw caps.



INTERIOR/EXTERIOR

ILLUMINATION CHART

P/Ns 2652/2652-24V



LED Interior/Exterior Strip Lamps with Sealed Switch - Surface Mount

These LED interior surface mount strip lamps with sealed waterproof switch feature a shallow 11mm profile, completely sealed housings and class leading efficiency. The range is ideal for a wide range of interior or exterior applications.



Switch

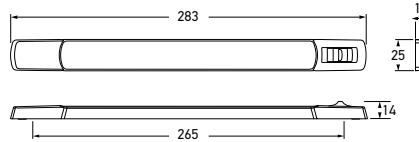


2JA 958 121-011
White/Blue

2JA 958 121-001
White/Red



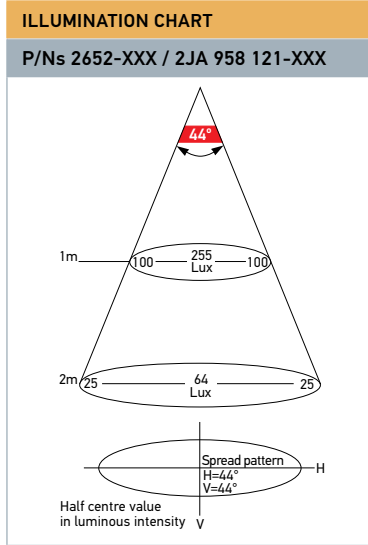
Ultra slim height of only 11mm.



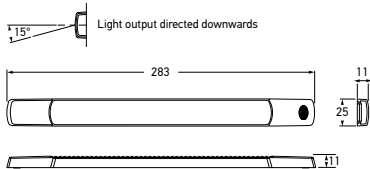
2652-SW	2JA 958 123-021 - 12 Volt DC	■ WHITE
2652-SW24V	2JA 958 123-421 - 24 Volt DC	
2JA 958 121-011 - 12 Volt DC		■ WHITE/BLUE
2JA 958 121-411 - 24 Volt DC		
2JA 958 121-001 - 12 Volt DC		■ WHITE/RED
2JA 958 121-401 - 24 Volt DC		

Mounting	Surface mount.	
Power Consumption	White function: <3W	Colour function: <1W
Protection	As per P/N 2652	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable. Dual colour lamps are pre-wired with 0.5m of twin core cable.	
Spare Parts	9.2652SW.09	1 White switch screw cap + 1 white standard screw cap
	9.2652SW.10	1 Charcoal switch screw cap + 1 charcoal standard screw cap

Note: P/Ns 2652-SW and 2652-SW24V includes charcoal and white screw caps.
P/Ns 2JA 958 121-011, 2JA 958 121-411, 2JA 958 121-001, 2JA 958 121-401 include white screw caps only.



LED Interior/Exterior Awning Strip Lamps – Surface Mount - 15° Spread



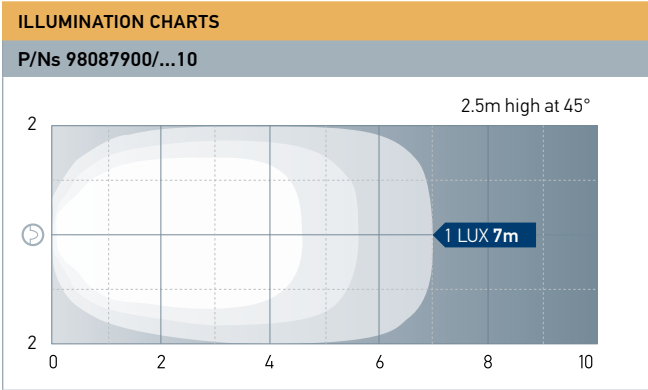
98087900	2JA 980 879-001 - 12 Volt DC	■ WHITE
98087910	2JA 980 879-101 - 24 Volt DC	
Mounting	Mounting Two hole surface mount.	
Power Consumption	<3W	
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of twin core cable.	
Lens Material	Nylon (PA12)	
Spare Parts	8HG 958 000-021 8HG 958 000-011	Mounting bracket 45° - Charcoal Mounting bracket 45° - White

See page 91 for surface mount strip lamp screw caps.

LED Awning Lamp with an ultra slim profile of only 11mm, a heavy duty nylon (PA12) lens and low power consumption of less than 3W, HELLA's new LED Awning Lamp is ideal for interior and exterior use. It comes complete with charcoal as well as white end caps and can be accessorised with a matching 45° mounting bracket to angle the beam further. Combining state of the art technology with sophisticated looks, this new low profile LED Awning Lamp is a lighting solution which will find many applications. The precision optic, with a 15° downwards spread pattern, is designed to cause minimum glare.



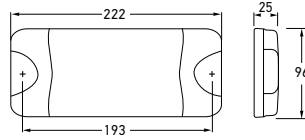
P/N 8HG 958 000-021 P/N 8HG 958 000-011



INTERIOR/EXTERIOR

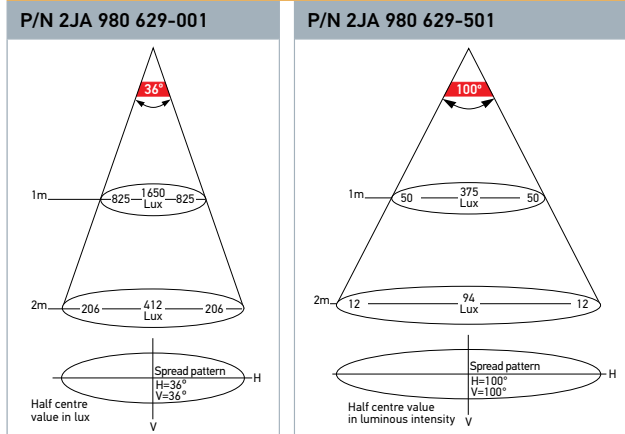
DuraLED Combi-S 50 White LED Lamps

DuraLED Combi-S white 50 LED lamps are an extremely powerful source of white light and are available in two light patterns, Spread and Wide Spread, to suit a variety of uses including engine rooms, storage lockers or other heavy duty applications where reliability cannot be compromised. Each lamp is completely sealed, UV, impact and shock resistant ensuring an ultra-long service life.



2JA 980 629-501	WIDE SPREAD
2JA 980 629-001	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	<12W
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 2.5m of cable.
Compliance	

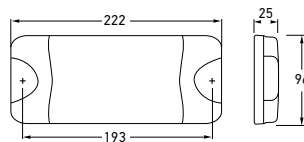
ILLUMINATION CHARTS



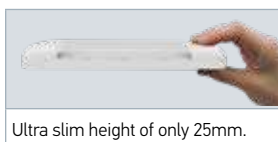
INTERIOR/EXTERIOR

DuraLED Combi-S 50 White LED Lamp with DT Connector

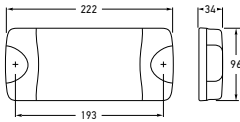
DuraLED Combi-S white 50 LED is an extremely powerful source of white light offering a safe, energy efficient and reliable alternative to incandescent and fluorescent lighting. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.



2JA 980 629-601	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	<12W
Protection	Reverse polarity and transient spike circuit protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
Cable Length	Pre-wired with 130mm of cable with DT connector.
Lens Material	High impact and chemical resistant Nylon (PA12) lens
Accessories	8KA 958 360-001 2 Pole Switch plug and socket (300mm) 8KA 958 361-001 2 Pole Y-splitter joint plug and socket (300mm) 8KA 958 363-001 2 Pole DT extension plug and socket (2.5m)
Compliance	



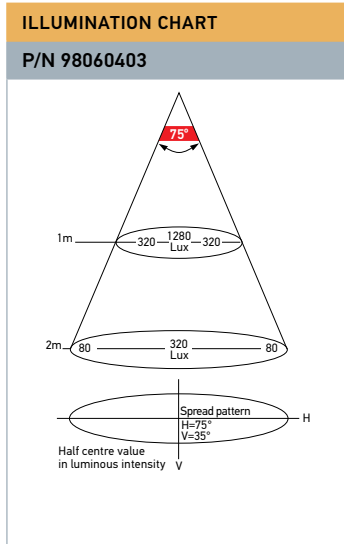
INTERIOR/EXTERIOR LIGHTING



98060403	2JA 980 604-032 – Charcoal Lens	WIDE SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	<12W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Accessories	98071900 98071901	Mounting spacer - Black Mounting spacer - White
Lens Material	Nylon (PA12)	
Compliance	CE	

**DuraLED Combi
50 LED Lamp**

White high brightness LED Lamp with nylon (PA12) lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<12 watts) and low heat. Spread light is suitable for general area lighting. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.



P/N 98071900

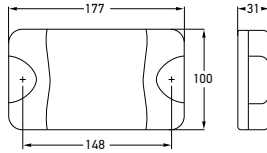


P/N 98071901

Suitable for all DuraLED Combi Lamps, see page 16.

DuraLED White 36 LED Lamps

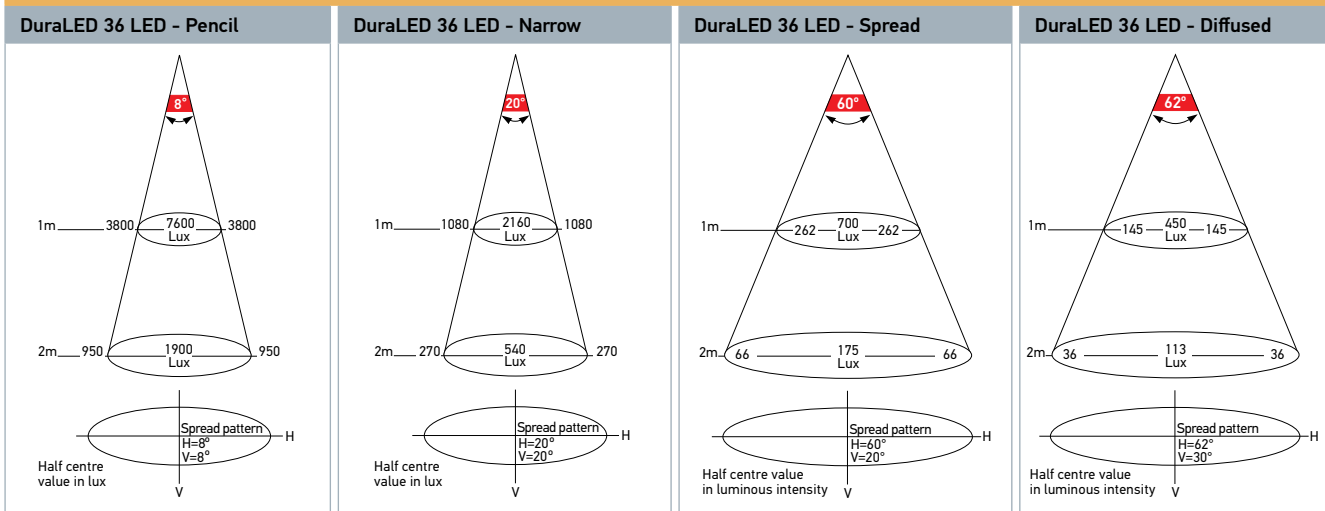
White high brightness LED lamp with nylon (PA12) lens. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<9 watts) and low heat. Lens manufactured from clear nylon (PA12) which features high UV and chemical resistance, and high impact strength. The lamp is fully sealed against dust and moisture ingress.



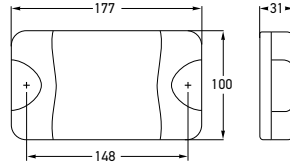
95903730	2JA 959 037-302 – White Lens	PENCIL
95903731	2JA 959 037-312 – Charcoal Lens	
95903740	2JA 959 037-402 – White Lens	NARROW
95903741	2JA 959 037-412 – Charcoal Lens	
95903720	2JA 959 037-202 – White Lens	SPREAD
95903721	2JA 959 037-212 – Charcoal Lens	

Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	<9W
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Nylon (PA12)
Compliance	CE
See page 86 for DuraLED accessories.	

ILLUMINATION CHARTS



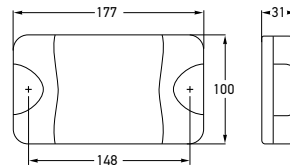
INTERIOR/EXTERIOR



2JA 959 037-501	DIFFUSED
2JA 959 037-511	SPREAD
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.
Power Consumption	<9W
Protection	See DuraLED White 36 LED Lamp above.
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.
Lens Material	Acrylic
Compliance	CE

DuraLED White 36 LED Lamps

White LED Interior Lamp with either a diffusion or clear acrylic lens. The lamps are shock and vibration proof and are fully sealed against dust and moisture ingress.



98060801	2JA 980 608-112	WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	5W	
Protection	Reverse polarity and transient spike circuit protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	CE	

See page 86 for DuraLED accessories.

DuraLED 20 LED Wide Spread Lamp

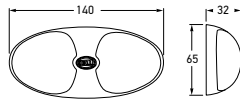
White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<5 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.



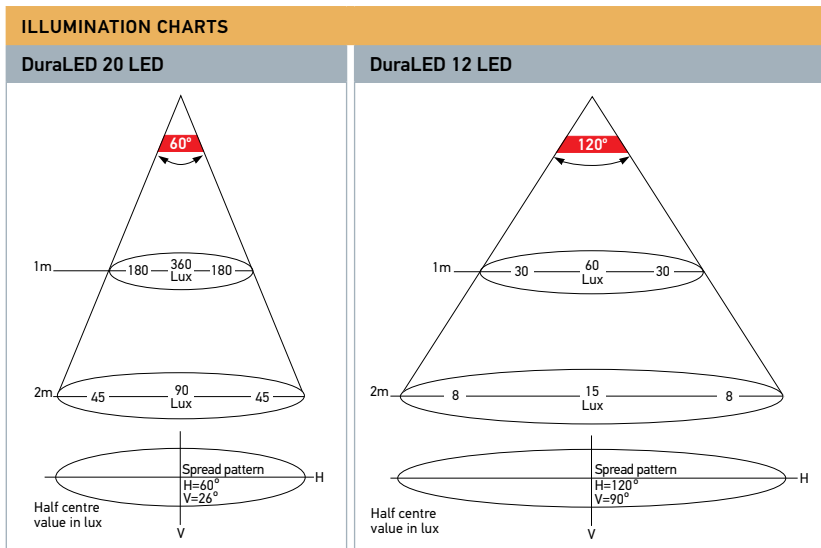
INTERIOR/EXTERIOR

**DuraLED White 12 LED
Wide Spread Lamp**

White high brightness LED Lamp. Exceptional light output, incorporating high efficacy electronics and LEDs resulting in low power consumption (<3 watts) and low heat. The lamp is fully sealed against dust and moisture ingress.



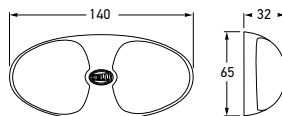
95970010	2JA 959 700-112 – White Shroud	■ WHITE
Mounting	Two hole surface mount with mounting bushes supplied.	
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.	
Power Consumption	<3W	
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Compliance	CE	



INTERIOR/EXTERIOR

**DuraLED White 12 LED
Wide Spread Lamps**

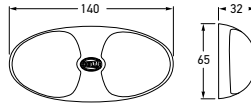
Multi-purpose LED Lamps offering class leading efficiency and durability.



2JA 959 700-121 - Black Shroud	■ WHITE
2JA 959 700-711 - Black Shroud	■ WARM WHITE
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	<3W
Colour Temperature	5000K (White) / 3000K (Warm White)
Temperature Range	-40°C to +60°C
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable.
Compliance	CE

**DuraLED White 12 LED
Wide Spread Lamps with Switch**

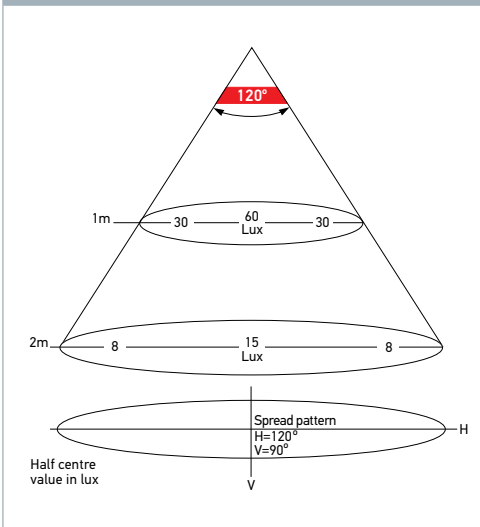
Multi-purpose LED lamps offering class leading efficiency and durability



2JA 980 704-001 - White Shroud	■ WHITE
2JA 980 704-021 - Black Shroud	■ WHITE
2JA 980 704-501 - White Shroud	■ WARM WHITE
2JA 980 704-521 - Black Shroud	■ WARM WHITE
Mounting	Two hole surface mount with mounting bushes supplied.
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	<3W
Colour Temperature	5000K (White) / 3000K (Warm White)
Temperature Range	-40°C to +60°C
Protection	Reverse polarity and transient spike circuit protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 500mm of sheathed multi-core tinned cable.
Compliance	CE

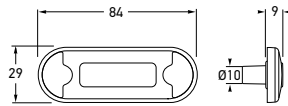
ILLUMINATION CHARTS

DuraLED 12 LED - Wide Spread Lamp/...with Switch



DuraLED Surface Mount Courtesy Lamps - Low Profile

These LED Courtesy Lamps feature a shallow 9mm profile and completely sealed housing. Available in a range of colours. Optic appears clear until illuminated.



P/N 98085515	P/N 98085525
P/N 98085535	P/N 98085540
P/N 98085550	

98085510	2XT 980 855-101		WHITE
98085515	2XT 980 855-151		WARM WHITE
98085525	2XT 980 855-251		AMBER
98085535	2XT 980 855-351		RED
98085540	2XT 980 855-401		BLUE
98085550	2XT 980 855-501		GREEN

Mounting	Two hole surface mount.
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	<0.5W
Protection	Reverse polarity protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)
Cable Length	Pre-wired with 0.5m of sheathed multi-core cable.
Lens Material	Nylon (PA12)
Compliance	

INTERIOR/EXTERIOR

DuraLED Surface Mount Courtesy Lamp Accessories

Accessory Rims and Screw Caps for the LED surface mount courtesy lamp family.



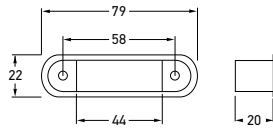
RIMS		
95968500	9AB 959 685-002 – 316 Stainless Steel	POLISHED
95968506	9AB 959 685-062 – 316 Stainless Steel	SATIN CHROME PLATED

SCREW CAPS		
9.2310.09BULK	9HD 980 858-007 – Pack of 4	BLACK
9.2310.10BULK	9HD 980 858-037 – Pack of 4	RED
9.2310.11BULK	9HD 980 858-017 – Pack of 4	WHITE
9.2310.12BULK	9HD 980 858-067 – Pack of 4	BLUE
9.2310.13BULK	9HD 980 858-057 – Pack of 4	GREEN
9.2310.14BULK	9HD 980 858-047 – Pack of 4	YELLOW
9.2310.15BULK	9HD 980 858-077 – Pack of 4	AMBER
9.2310.16BULK	9HD 980 858-027 – Pack of 4	GREY



LED Narrow Rim Rectangular Courtesy Lamps

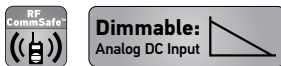
Narrow Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.



95951040	2XT 959 510-402 – 12/24 Volt, Clear lens		WHITE
95951015	2XT 959 510-152 – 12/24 Volt, Clear lens		GREEN
95951025	2XT 959 510-252 – 12/24 Volt, Clear lens		BLUE

Voltage Multivolt for optimum brightness in 12 and 24 volt systems.

Compliance	CE
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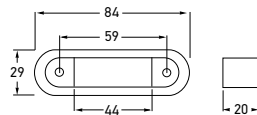
95951031	2XT 959 510-312 – 12 Volt DC		RED
95951033	2XT 959 510-332 – 24 Volt DC		RED
95951001	2XT 959 510-012 – 12 Volt DC		AMBER
95951006	2XT 959 510-062 – 24 Volt DC		AMBER

Mounting Recess mount.

Power Consumption	<1W
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Protection Reverse polarity protection.
IP 6K6 (Protection against dust and high-pressure water jets)
IP 6K7 (Protection against dust and temporary water immersion)

Cable Length	Pre-wired with 120mm of cable.
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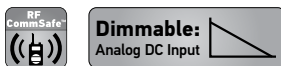
LED Wide Rim Rectangular Courtesy Lamps

Wide Rim Flush Mount Courtesy Lamp with either white, red, amber, green or blue LEDs.

95951080	2XT 959 510-802 – Clear lens		WHITE
95951095	2XT 959 510-952 – Clear lens		GREEN
95951065	2XT 959 510-652 – Clear lens		BLUE

Voltage Multivolt for optimum brightness in 12 and 24 volt systems.

Compliance	CE
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95951071	2XT 959 510-712 – 12 Volt DC		RED
95951073	2XT 959 510-732 – 24 Volt DC		RED
95951051	2XT 959 510-512 – 12 Volt DC		AMBER
95951053	2XT 959 510-532 – 24 Volt DC		AMBER

Mounting Recess mount.

Power Consumption	<1W
-------------------	-----

Protection Reverse polarity protection.
IP 6K6 (Protection against dust and high-pressure water jets)
IP 6K7 (Protection against dust and temporary water immersion)

Cable Length	Pre-wired with 120mm of cable.
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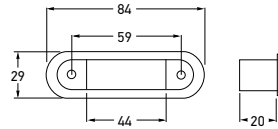
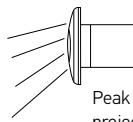


See page 97 and 89 for spare parts and accessories.

INTERIOR/EXTERIOR

LED Wide Rim Rectangular Courtesy Step Lamps

Wide Rim, Flush Mount, Courtesy Step Lamp with either white, red, green or blue LEDs. Optic appears clear until illuminated.



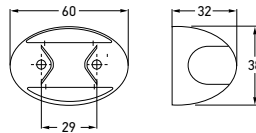
95968080	2XT 959 680-861 – 12/24 Volt Clear lens		WHITE
95968070	2XT 959 680-761 – 12/24 Volt Clear lens		RED
95968090	2XT 959 680-941 – 12/24 Volt Clear lens		GREEN
95968060	2XT 959 680-641 – 12/24 Volt Clear lens		BLUE

Mounting	Recess mount.
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	<1W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 120mm of cable.
Compliance	CE

See page 97 and 89 for spare parts and accessories.

DuraLED Surface Mount Courtesy Lamps

Blue, white or green LED Courtesy Lamps. Optic appears clear until illuminated.



95963046	2XT 959 630-462		WHITE
95963025	2XT 959 630-252		BLUE
95963055	2XT 959 630-552		GREEN

Mounting	Two hole surface mount.
Voltage	Multivolt for optimum brightness in 12 and 24 volt systems.
Power Consumption	<1W
Protection	Reverse polarity protection. IP 6K6 (Protection against dust and high-pressure water jets) IP 6K7 (Protection against dust and temporary water immersion)
Cable Length	Pre-wired with 0.5m of cable.
Compliance	CE

See page 87 for spare parts and accessories.



Technology with Vision



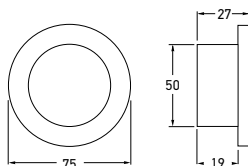
LED Interior Lighting

To suit your lifestyle choice



LED High Intensity Courtesy Lamps

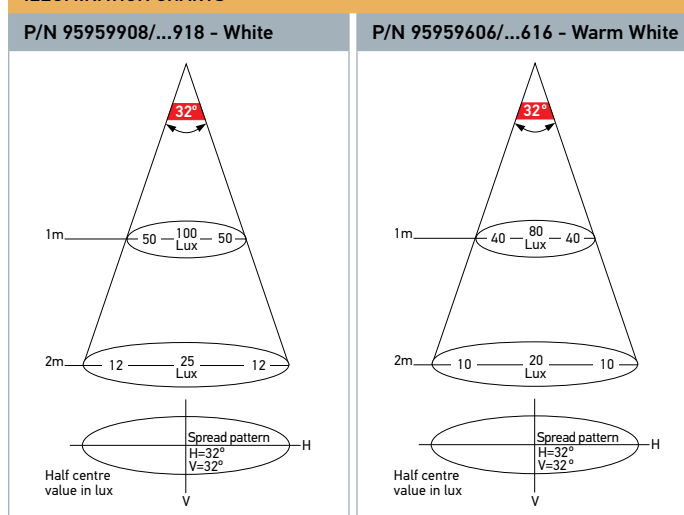
Round LED High Intensity Courtesy Lamps for interior and exterior use. Includes a black and a white plastic rim (as shown). Additional rims and housings are available as spare parts.



P/N 95959606

95959908	2JA 959 599-081 – 12 Volt DC	☑	■ WHITE
95959918	2JA 959 599-181 – 24 Volt DC	☑	
95959606	2JA 959 596-061 – 12 Volt DC	☑	■ WARM WHITE
95959616	2JA 959 596-161 – 24 Volt DC	☑	
Mounting	Recess mount with 50mm diameter hole.		
Power Consumption	1W		
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.		
Cable Length	Pre-wired with 120mm of cable.		

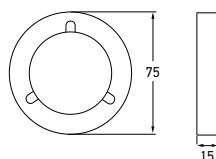
ILLUMINATION CHARTS



INTERIOR/EXTERIOR

Round Courtesy Lamp Accessories

Spare Rims and housings for the round courtesy lamp family. One rim is required per lamp.



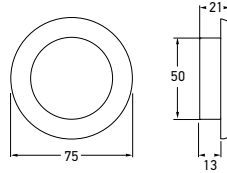
ROUND RIMS - SINGLE		
95950501	9AB 959 505-012 – Plastic	■ CHROME PLATED
95950502	9AB 959 505-022 – Plastic	■ GOLD PLATED
95950520	9AB 959 505-203 – Plastic	■ BLACK
95950550	9AB 959 505-503 – 316 Stainless Steel	■ POLISHED
95950552	9AB 959 505-521 – 316 Stainless Steel	■ GOLD PLATED
95950556	9AB 959 505-563 – 316 Stainless Steel	■ SATIN CHROME PLATED

ROUND HOUSING		
95999310	8HG 959 993-103 – Plastic	■ BLACK
95999311	8HG 959 993-113 – Plastic	■ WHITE

Housing does not suit high intensity courtesy lamps.



Dimmable:
Analog DC Input



98050001	2XT 980 500-011 – 12 Volt DC		WHITE
98050101	2XT 980 501-011 – 24 Volt DC		
98050051	2XT 980 500-511 – 12 Volt DC		ENHANCED BRIGHTNESS WHITE
98050151	2XT 980 501-511 – 24 Volt DC		
98050021	2XT 980 500-211 – 12 Volt DC		WARM WHITE
98050121	2XT 980 501-211 – 24 Volt DC		
98050071	2XT 980 500-711 – 12 Volt DC		ENHANCED BRIGHTNESS WARM WHITE
98050171	2XT 980 501-711 – 24 Volt DC		
98050741	2XT 980 507-411 – 12 Volt DC		DEEP RED
98050841	2XT 980 508-411 – 24 Volt DC		
98050721	2XT 980 507-211 – 12 Volt DC		RED
98050821	2XT 980 508-211 – 24 Volt DC		
98050761	2XT 980 507-611 – 12 Volt DC		ORANGE
98050861	2XT 980 508-611 – 24 Volt DC		
98050701	2XT 980 507-011 – 12 Volt DC		AMBER
98050801	2XT 980 508-011 – 24 Volt DC		
98050201	2XT 980 502-011 – 12 Volt DC		GREEN
98050301	2XT 980 503-011 – 24 Volt DC		
98050241	2XT 980 502-411 – 12 Volt DC		CYAN
98050341	2XT 980 503-411 – 24 Volt DC		
98050221	2XT 980 502-211 – 12 Volt DC		BLUE
98050321	2XT 980 503-211 – 24 Volt DC		

Mounting Recess mount with 50mm diameter hole.

Power Consumption 1W

Protection Reverse polarity protection.
Fully sealed against dust, high-pressure washing and temporary water immersion.

Cable Length Pre-wired with 120mm of cable.

Each lamp includes a black and a white plastic rim. Additional rims and housings are available as spare parts.

LED Round Courtesy Lamps - Clear Lens

Attractive, energy efficient Round LED Courtesy Lamps for interior and exterior use. Available in nine exciting colours with a range of different rim finishes. Optic appears clear until illuminated.

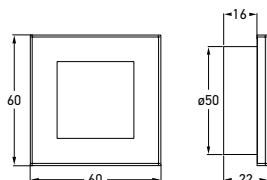


P/N 98050001



LED High Intensity Courtesy Lamps

Square LED high Intensity Courtesy Lamps for interior and exterior use. Includes a black and a white plastic rim (as shown). Additional rims and housings are available as spare parts.



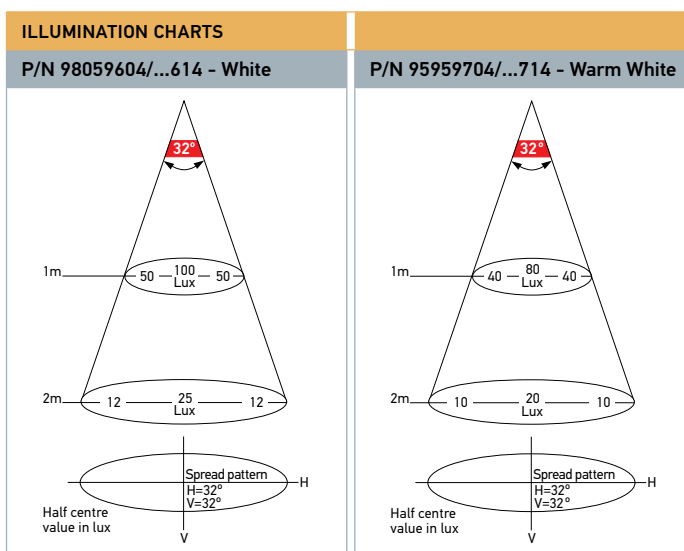
P/N 98059704

98059604	2JA 980 596-041 – 12 Volt DC	☑	■ WHITE
98059614	2JA 980 596-141 – 24 Volt DC	☑	
98059704	2JA 980 597-041 – 12 Volt DC	☑	■ WARM WHITE
98059714	2JA 980 597-141 – 24 Volt DC	☑	

Mounting	Recess mount with 50mm diameter hole.
Power Consumption	1W
Protection	Reverse polarity protection. Fully sealed against dust, high-pressure washing and temporary water immersion.
Cable Length	Pre-wired with 120mm of cable.



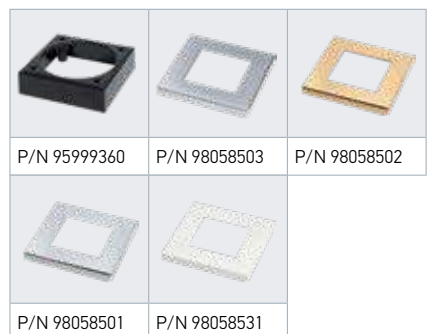
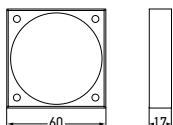
Square Courtesy lamps



INTERIOR/EXTERIOR

Square Courtesy Lamp Accessories

Spare rims and housings for the square courtesy lamp family. One rim is required per lamp.



P/N 95999360 P/N 98058503 P/N 98058502

P/N 98058501 P/N 98058531

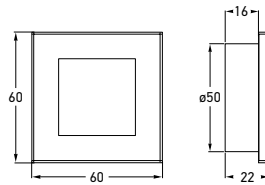
SQUARE RIMS - SINGLE		
98058520	9AB 980 585-202 – Plastic	■ BLACK
98058531	9AB 980 585-312 – Plastic	■ WHITE
98058501	9AB 980 585-012 – Plastic	■ CHROME PLATED
98058502	9AB 980 585-022 – Plastic	■ GOLD PLATED
98058503	9AB 980 585-032 – Plastic	■ SATIN CHROME PLATED

SQUARE HOUSING		
95999360	8HG 959 993-603 – Plastic	■ BLACK
95999354	8HG 959 993-543 – Plastic	■ WHITE

INTERIOR/EXTERIOR LIGHTING



Dimmable:
Analog DC Input



98058001	2XT 980 580-011 – 12 Volt DC		■ WHITE
98058101	2XT 980 581-011 – 24 Volt DC		
98058051	2XT 980 580-511 – 12 Volt DC		■ ENHANCED BRIGHTNESS WHITE
98058151	2XT 980 581-511 – 24 Volt DC		
98058021	2XT 980 580-211 – 12 Volt DC		■ WARM WHITE
98058121	2XT 980 581-211 – 24 Volt DC		
98058071	2XT 980 580-711 – 12 Volt DC		■ ENHANCED BRIGHTNESS WARM WHITE
98058171	2XT 980 581-711 – 24 Volt DC		
98058741	2XT 980 587-411 – 12 Volt DC		■ DEEP RED
98058841	2XT 980 588-411 – 24 Volt DC		
98058721	2XT 980 587-211 – 12 Volt DC		■ RED
98058821	2XT 980 588-211 – 24 Volt DC		
98058761	2XT 980 587-611 – 12 Volt DC		■ ORANGE
98058861	2XT 980 588-611 – 24 Volt DC		
98058701	2XT 980 587-011 – 12 Volt DC		■ AMBER
98058801	2XT 980 588-011 – 24 Volt DC		
98058201	2XT 980 582-011 – 12 Volt DC		■ GREEN
98058301	2XT 980 583-011 – 24 Volt DC		
98058241	2XT 980 582-411 – 12 Volt DC		■ CYAN
98058341	2XT 980 583-411 – 24 Volt DC		
98058321	2XT 980 583-211 – 24 Volt DC		■ BLUE

Mounting Recess mount, 50mm diameter hole.

Power Consumption 1W

Protection Reverse polarity protection.
Fully sealed against dust, high-pressure washing and temporary water immersion.

Cable Length Pre-wired with 120mm of cable.

Each lamp includes a black and a white plastic rim. Additional rims and housings are available as spare parts.

LED Square Courtesy Lamps - Clear Lens

Attractive, energy efficient Square LED Courtesy Lamps for interior and exterior use. Available in nine exciting colours with a range of different rim finishes. Optic appears clear until illuminated.

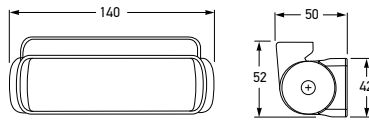


P/N 98058001



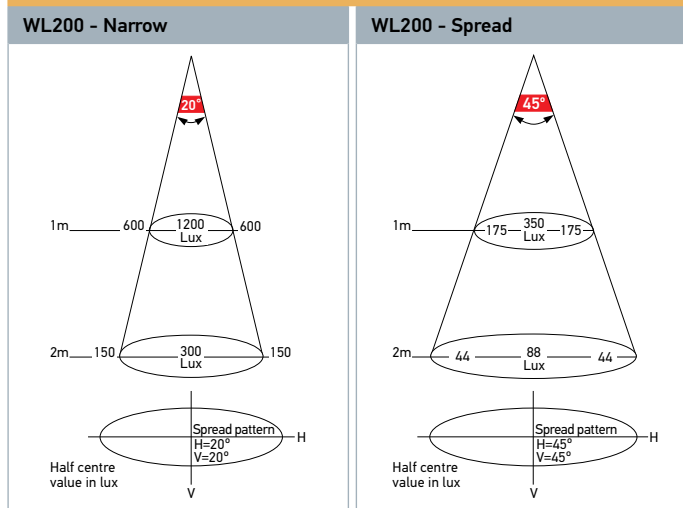
DuraLED WL200 Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of two light patterns, narrow or spread.



98067020	2JA 980 670-202 – Narrow	WHITE
98067030	2JA 980 670-302 – Spread	
Mounting	Upright or Pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	3W	
Max. Light Output	200 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	CE	

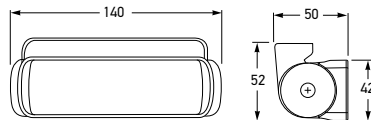
ILLUMINATION CHARTS



INTERIOR/EXTERIOR

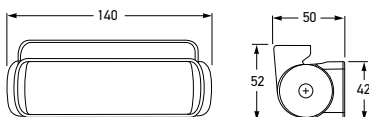
DuraLED WL200 RfCommSafe Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Hermetically sealed against dust and moisture. Featuring a tough, chemical resistant nylon (PA12) lens.



98067038	1GA 980 670-382 – 12V DC Spread
98067062	1GA 980 670-622 – 24V DC Spread
Refer page 207 for specifications	

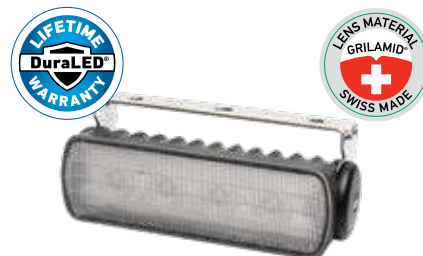
INTERIOR/EXTERIOR LIGHTING



98057330	1GA 980 573-301 – Narrow	■ WHITE
98057310	1GA 980 573-101 – Spread	
98057300	1GA 980 573-001 – Wide Spread	
Mounting	Upright or Pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	7W	
Max. Light Output	550 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	CE	

DuraLED WL550 Work Lamps

LED Universal Work Lamp with low profile stainless steel bracket. Lamp may be mounted upright or pendant and may be adjusted vertically up or down. Totally sealed against dust and moisture and with a tough, chemical resistant nylon (PA12) lens. Option of two light patterns, spread or wide spread.



ILLUMINATION CHARTS		
WL550 - Narrow	WL550 - Spread	WL550 - Wide Spread

INTERIOR/EXTERIOR

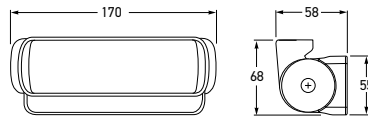
DuraLED WL750 Work Lamps

Featuring an integrated dual-intensity circuit, a high level of spike protection and energy efficient Multivolt technology, the innovative DuraLED WL750 will appeal for applications where energy efficiency and reliability is a must. Features a tough, chemical-resistant nylon (PA12) lens, a highly impact-resistant Swiss-made crystal clear polyamide with superior tolerance to chemical and long term harsh UV exposure, as well as technologically advanced thermally conductive non-metal housing.

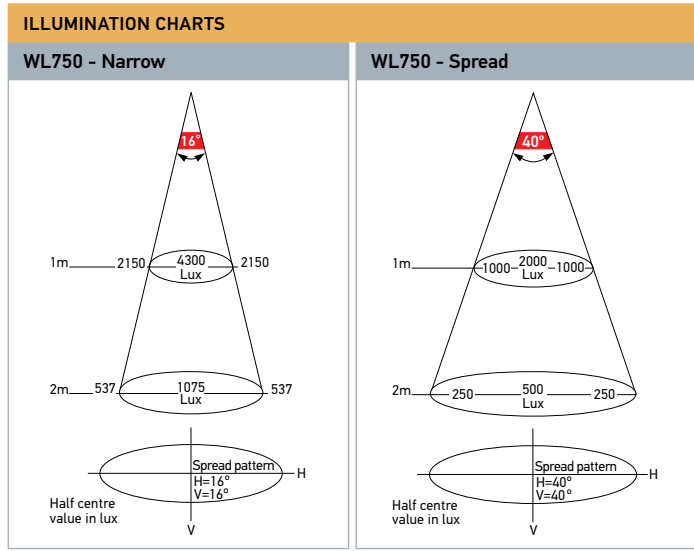


Friction mounts; easy adjustment without tools.

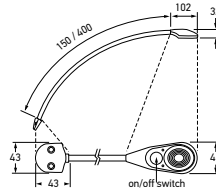
Completely sealed lamp/cable entry. Marine grade stainless steel bracket.



98095023	1GD 980 950-231 – Narrow	■ WHITE
98095003	1GD 980 950-031 – Spread	
98095033	1GD 980 950-331 – Narrow	■ WARM WHITE
98095014	1GD 980 950-141 – Spread	
Mounting	Upright or Pendant.	
Voltage	Multivolt for optimum brightness at input voltages from 9 to 33 volts.	
Power Consumption	High intensity mode: 12W (1A@12V DC/0.50A@24V DC) Low intensity mode: 2W (0.17A@12V DC/0.08A@24V DC)	
Max. Light Output	650 lumens	
Protection	Reverse polarity and voltage spike protection. IP 6K7 (Protection against dust and temporary water immersion) IP 6K9K (Protection against dust and high-pressure/steam jet cleaning)	
Cable Length	Pre-wired with 2.5m of sheathed multi-core cable.	
Lens Material	Nylon (PA12)	
Compliance	CE	



INTERIOR/EXTERIOR

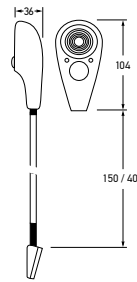


LED Flexible Map Reading Lamps

LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.



2638	2JA 343 720-023		150MM
2639	2JA 343 720-211		400MM
Mounting	Screw Mount.		
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts.		
Power Consumption	2.4W		
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)		
Cable Length	Pre-wired with 150mm of cable.		
Compliance	CE		
Suitable for interior use only.			



LED Flexi Chart Table Lamps

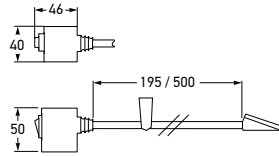
LED Map Reading Light featuring a strong flexible shaft and an on/off switch on the lamp head. Low power consumption.



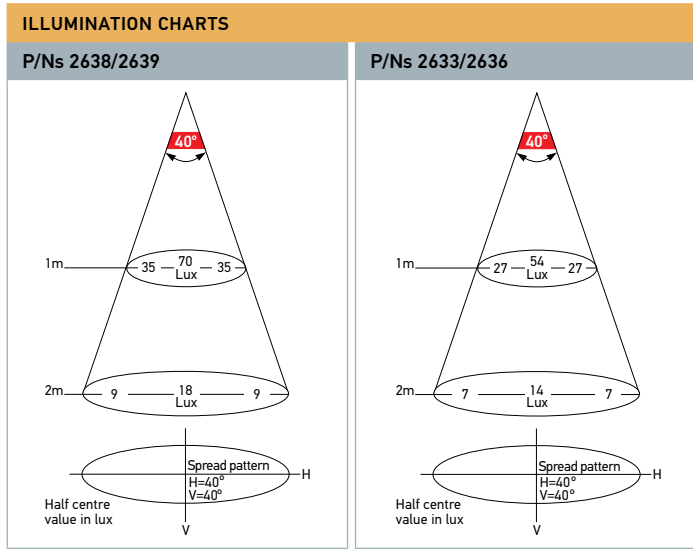
2JA 343 720-522			WHITE/RED	150MM
2JA 343 720-622			WHITE/RED	400MM
2JA 346 720-052			RED	400MM
Mounting	Screw Mount.			
Voltage	Multivolt for optimum brightness at input voltage from 9 to 31 volts.			
Power Consumption	2W			
Protection	Reverse polarity protection. IP 53 (Protection against dust and water spray)			
Cable Length	Pre-wired with 120mm of twin core cable.			
Compliance	CE			
Suitable for interior use only.				

Halogen Map Reading Lamps

Flexible black arm. Lamp head has an integral rocker on/off switch and is fitted with a clear diffuser lens for glare-free illumination. Pillar or dash mounting. Includes additional red lens.



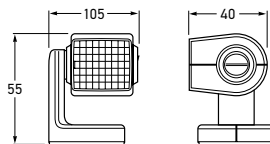
2633	2AB 004 532-172		295MM
2636	2AB 004 532-162		600MM
Mounting	Screw Mount.		
Power Consumption	5W		
Globes to Suit	12V	YL125	
	24V	HL247	



INTERIOR/EXTERIOR

Map Reading Lamp - 12V DC

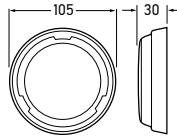
Integrated on /off Rocker Switch. Fitted with opaque white lens for glare-free illumination. Includes additional red lens.



2637	2AB 004 532-105		WHITE
Mounting	Pedestal Mount		
Power Consumption	5W		
Globes to Suit	12V	HL126X Minixen (included)	
	12V	YL125 Halogen (optional)	

Roof Lamp

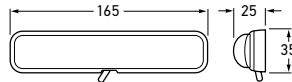
Brilliant-finished rim.



2605	2JA 003 231-013	CHROME LOOK RIM
Voltage	Globe to be ordered separately.	
Mounting	Surface Mount.	
Function	3 position on / off / door contact switch (suitable for positive door contact only).	
Globes to Suit	2 x 6V	K610
	2 x 12V	K1210
	2 x 24V	K2410

Roof Lamp

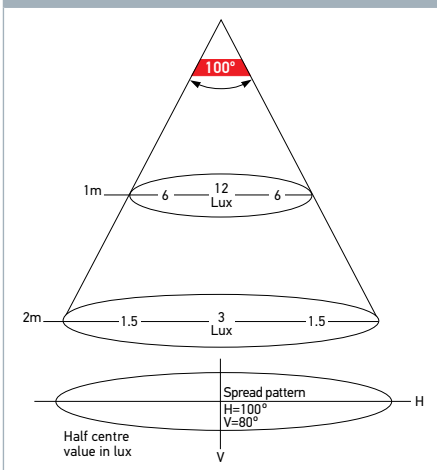
White plastic rim and two globe holders. Integrated on / off switch.



2608	2JA 001 330-005	WHITE RIM
Voltage	Globe to be ordered separately.	
Mounting	Surface Mount.	
Globes to Suit	2 x 6V	L65
	2 x 12V	L125
	2 x 24V	L245

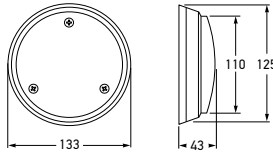
ILLUMINATION CHART

P/N 2608

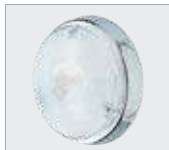


Interior Lamps

Suitable for insulated earth circuits.



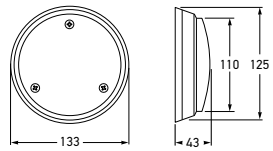
2610	2JA 900 741-241	WHITE RIM
2611	2JA 900 741-291	CHROME RIM
Globes to Suit	12V 24V	K1210 K2410
Spare Part	2.9800.08	Clear Lens



P/N 2611

Interior Lamp - Polycarbonate Base with Switch

Complete with on/off switch. Suitable for insulated earth circuits.

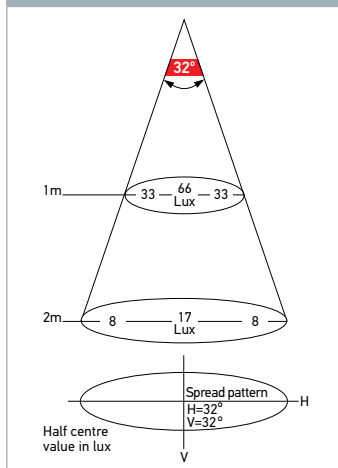


2617	2JA 950 959-001	WHITE RIM
Globes to Suit	12V 24V	K1210 K2410
Spare Part	2.9800.08	Clear Lens

INTERIOR/EXTERIOR

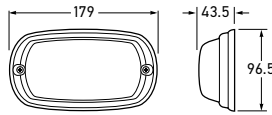
ILLUMINATION CHART

P/Ns 2610/2611/2617



Roof Lamp

Chrome rim and rubber base. Two globe holders. Suitable for insulated earth circuits.

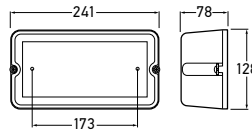


2612	2JA 905 253-001	CHROME RIM
Voltage	Globe to be ordered separately.	
Mounting	Surface Mount.	
Globes to Suit	2 x 6V 2 x 12V 2 x 24V	L65 L125/K1210 L245/K2410
Spare Parts	2.9801.05 2.6826.03	Lens Chromed Rim

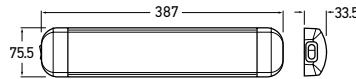


Caravan Entry Lamp

White base with two globe holders - 240V AC bayonet base and 12V DC bayonet base.



2621	2JA 007 750-012	WHITE BASE
Voltage	Globes to be ordered separately.	
Mounting	Surface Mount.	
Globes to Suit	12V (FD1221) Bayonet base. 240V 40W Max.	
Spare Part	9.2620.01	Lens
Note	For exterior use only.	



Fluorescent Lamp - 8 Watt

Tough, impact resistant housing with integrated on / off switch. New and improved design.

7033	2JA 005 679-001	12 VOLT
Mounting	Surface Mount (2 screws)	
Current Draw	1 x tube - 0.5 Amps 2 x tubes - 0.9 Amps	
Globe to Suit	FL8	





Relays and Flasher Units

HELLA manufactures more than 100 million units per year and thanks to optimised production, HELLA relay and flasher units consistently benchmark with the highest reliability in the industry.



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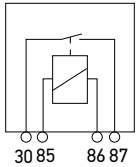
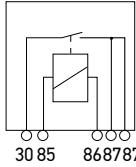
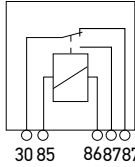
HELLA RELAYS

HELLA offers a comprehensive range of relays to suit 12 and 24 volt applications. Quality accessories facilitate the expansion into new applications and provide customers with new solutions.

COMMON PIN DESIGNATIONS FOR RELAYS

Pin No.	Description	Eliminating Voltage Spikes Voltage spikes from 300V to 500V can occur momentarily when a relay is switched off. Sensitive electronic equipment can be damaged or malfunctions can occur if these spikes reach the vehicle electrical network without suppression. A relay with a diode eliminates voltage spikes completely.
85/2	Earth (end of winding to ground or negative)	
86/1	Positive	
87/5	Output (to consumer e.g. driving lamp)	
87a/4	Alternative output (1st output, break side)	
30/3	Positive supply (Input from + battery terminal, direct)	

The Different Types of Relays

The Normally Open Relay	The Normally Open Relay with Dual Output	The Change-over Relay
 <p>30 85 86 87</p>	 <p>30 85 86 87 87a</p>	 <p>30 85 86 87 87a</p>
<p>A normally open relay is used to close the electric circuit between power source and electrical load, i.e. the load is switched on. Relays are operated by means of switches, pulse generators or control devices.</p> <p>Application: Headlamps, auxiliary driving lamps, auxiliary fog lamps, horns, heaters, motors for fans and power windows, air-conditioners and ignition assemblies.</p>		<p>The change-over relay changes the load path from one electrical load to another. The relay is operated by a dashboard switch.</p> <p>Application: Switching over from town horn to fanfare horn, for 2 speed appliances such as heated rear window or fan motors.</p> <p>Change-over relays can be used as:</p> <ul style="list-style-type: none"> • Change-over relays • Normally open relays • Normally closed relays

Relays have been predicted to be obsolete in modern vehicles, however the automotive industry needs relays since relay functions cannot always be replaced by control units. Only relays make "galvanic isolation" possible between input and output. Semi-conductor devices cannot manage this at the moment. Another positive factor is the cost advantage relays have compared with an electronic solution.

In motor vehicles, relays are used to switch high currents. For example the engine control unit is switched by a relay. Their sturdiness allows them to be installed near electric consumers. As only low control currents are required, the cable cross-sections can be kept small. The switching/amplifier function of a relay can only be achieved with a lot more effort and a lot less reliability using "modern" electronics. An additional advantage is that the replacement of a relay is quick and easy. These characteristics guarantee that relays will have a regular place in many vehicles for a long time to come.

Trust in our Quality Relays

- Production expertise: HELLA produces more than 100 million relays per year. Thanks to optimised production we can offer a competitive price for customers. HELLA relays have an extremely low failure rate.
- OEM customers: HELLA develops and produces relays for AGCO, Claas, Daimler AG, Ford, VW, GM, JCB, Opel, Nissan, John Deere, Chrysler and Jaguar/Land Rover among others. We have been working with many customers for decades.

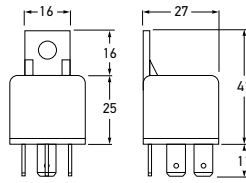
RELAY QUICK REFERENCE CHART

MINI RELAYS - NORMALLY OPEN								
	Voltage	Pins	Function	Protection	Maximum Load	Current Draw	Bracket	Description
3078	12V DC	4	N/O		30A	140mA	Yes	
3053	12V DC	4	N/O	Diode	40A	170mA	Yes	
3059	12V DC	4	N/O	Diode	50A	210mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3082	12V DC	5	N/O		40A	140mA	Yes	
3055	12V DC	5	N/O	Diode	40A	170mA	Yes	
3079	24V DC	4	N/O		30A	70mA	Yes	
3054	24V DC	4	N/O	Diode	22A	90mA	Yes	
3060	24V DC	4	N/O	Diode	30A	90mA	Yes	Terminals 30 and 87 are 8.1mm terminals
3056	24V DC	5	N/O	Diode	22A	90mA	Yes	
MINI RELAYS - NORMALLY OPEN FUSED								
3076	12V DC	4	N/O		25A	140mA	Yes	
3077	24V DC	4	N/O		15A	80mA	Yes	
MINI RELAYS - CHANGE-OVER								
3080	12V DC	5	N/O-N/C		30-87, 30A/30-87a, 20A	140mA	Yes	
3057	12V DC	5	N/O-N/C	Diode	30-87, 40A/30-87a, 15A	170mA	Yes	
3081	24V DC	5	N/O-N/C		30-87, 20A/30-87a, 10A	70mA	Yes	
3058	24V DC	5	N/O-N/C	Diode	30-87, 22A/30-87a, 10A	90mA	Yes	
HIGH CAPACITY RELAYS - NORMALLY OPEN								
3084	12V DC	4	N/O		60A	140mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3061	12V DC	4	N/O		180A peak (100A continuous)	380mA	Yes	
3085	24V DC	4	N/O		60A	70mA	Yes	Terminals 30 and 87 are 9.5mm terminals
3062	24V DC	4	N/O		80A peak (60A continuous)	180mA	Yes	
TIME CONTROL RELAYS								
3086-12V	12V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3087-12V	12V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3086-24V	24V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	
3087-24V	24V DC	5	N/O-N/C	Contact opened 10A, Contact closed 20A 30min			Yes	

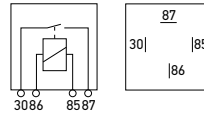
Normally Open Mini Relays



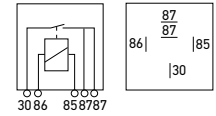
P/Ns 3078 and 3082



P/Ns 3078 and 3082



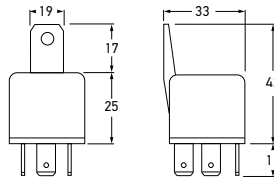
P/N 3078



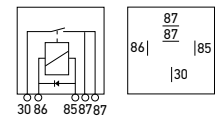
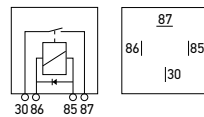
P/N 3082

3078	4RA 965 400-002	4 PIN	12 VOLT DC
3082	4RA 993 791-091	5 PIN	
Maximum Load	P/N 3078: 30A	P/N 3082: 40A	
Current Draw	140mA		

Normally Open Mini Relays with Diode



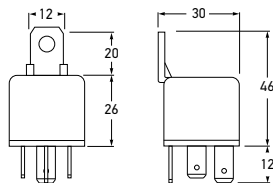
P/N 3053



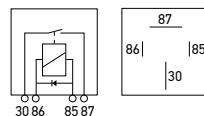
P/N 3055

3053	4RA 905 330-001	4 PIN	12 VOLT DC
3055	4RA 905 330-011	5 PIN	
Maximum Load	40A		
Protection	Diode		
Current Draw	170mA		

Normally Open Mini Relay with Diode

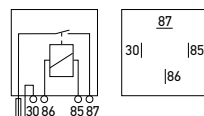
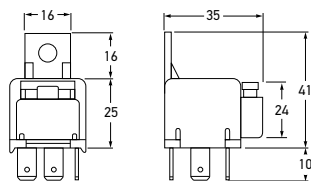


Terminals 30 and 87 are 8.1mm terminals



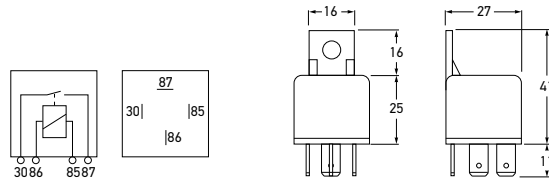
3059	4RA 905 330-031	4 PIN	12 VOLT DC
Maximum Load	50A		
Protection	Diode		
Current Draw	210mA		

Normally Open Fused Relay



3076	4RA 003 530-043	4 PIN	12 VOLT DC
Maximum Load	25A with 25A fuse		
Current Draw	140mA		

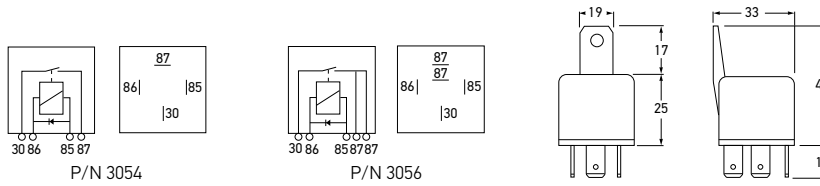
RELAYS AND FLASHER UNITS



3079	4RA 965 400-032	4 PIN	24 VOLT DC
Maximum Load	30A		
Current Draw	70mA		

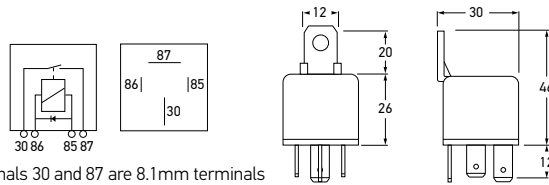


Normally Open Mini Relay



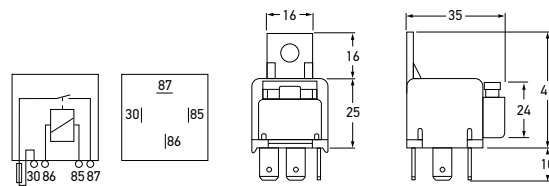
3054	4RA 905 330-241	4 PIN	24 VOLT DC
3056	4RA 905 330-251	5 PIN	
Maximum Load	22A		
Protection	Diode		
Current Draw	90mA		

Normally Open Mini Relays with Diode



3060	4RA 905 330-271	4 PIN	24 VOLT DC
Maximum Load	30A		
Protection	Diode		
Current Draw	90mA		

Normally Open Mini Relay with Diode



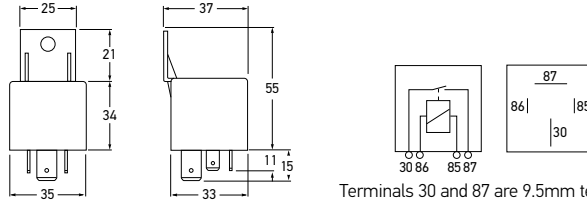
3077	4RA 003 530-052	4 PIN	24 VOLT DC
Maximum Load	15A with 15A fuse		
Current Draw	80mA		

Normally Open Fused Relay



RELAYS

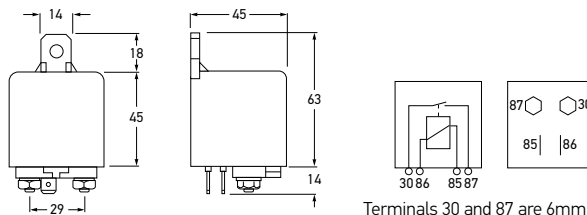
High Capacity Normally Open Relay



Terminals 30 and 87 are 9.5mm terminals

3084	4RA 003 437-088	4 PIN	12 VOLT DC
Maximum Load	60A		
Current Draw	140mA		

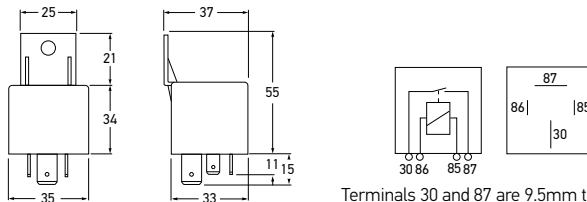
High Capacity Normally Open Relay



Terminals 30 and 87 are 6mm studs

3061	4RA 905 330-041	4 PIN	12 VOLT DC
Maximum Load	180A peak current (100A continuous)		
Current Draw	380mA		

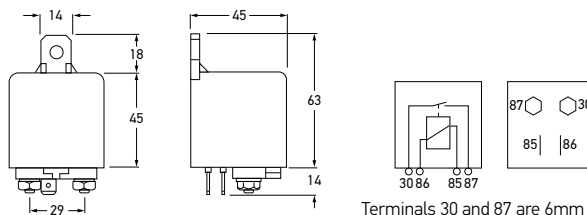
High Capacity Normally Open Relay



Terminals 30 and 87 are 9.5mm terminals

3085	4RA 003 437-098	4 PIN	24 VOLT DC
Maximum Load	60A		
Current Draw	70mA		

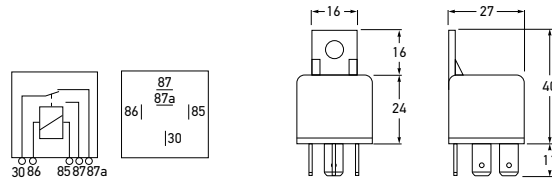
High Capacity Normally Open Relay



Terminals 30 and 87 are 6mm studs

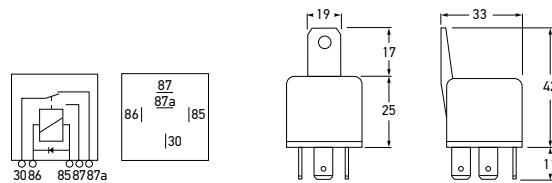
3062	4RA 905 330-281	4 PIN	24 VOLT DC
Maximum Load	80A peak current (60A continuous)		
Current Draw	180mA		

RELAYS AND FLASHER UNITS



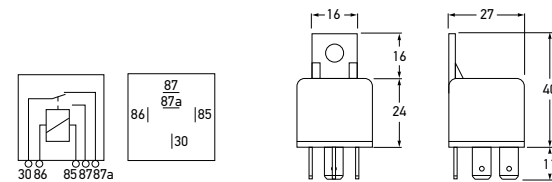
3080	4RD 933 332-042		5 PIN	12 VOLT DC
Maximum Load	30-87, 30A/30-87a, 20A			
Current Draw	140mA			

Change-over Relay



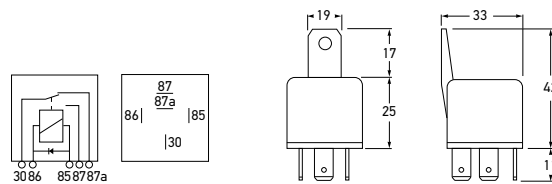
3057	4RD 905 330-021		5 PIN	12 VOLT DC
Maximum Load	30-87, 40A/30-87a, 15A			
Protection	Diode			
Current Draw	170mA			

Change-over Relay with Diode



3081	4RD 003 520-095		5 PIN	24 VOLT DC
Maximum Load	30-87, 20A/30-87a, 10A			
Current Draw	70mA			

Change-over Relay



3058	4RD 905 330-261		5 PIN	24 VOLT DC
Maximum Load	30-87, 22A/30-87a, 10A			
Protection	Diode			
Current Draw	90mA			

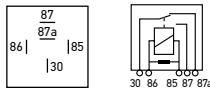
Change-over Relay with Diode



RELAYS

Weather Proof Change-over Relays

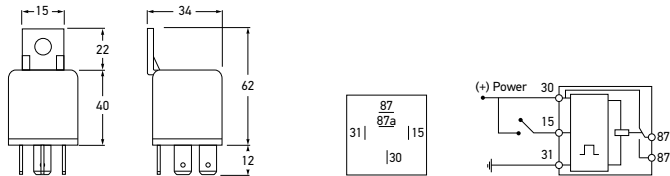
Weather Proof Relay and connector assembly kits.



HMWPR001	8KW 910 182-001	12 VOLT DC
HMWPR002	8KW 910 182-011	24 VOLT DC
Voltage	12V 10 - 16V DC 24V 20 - 28V DC	
Operating Range	-40°C to +125°C	
Contact Current Rating	12V NO 35A / NC 20A 24V NO 40A / NC 30A	
Coil Resistance	12V 70-90 Ohms @ 23°C 24V 300 Ohms	
Transient Suppressor Resistor	12V 680 Ohms 24V 2700 Ohms	
Kit Contents	ISO mini relay and connector assembly kit contains: 1 x ISO-style changeover relay. 1 x Connector body with seals for pull to seat terminals. 3 x Large barrel pull to seat terminal 6.3mm width suits cable size 3.00mm ² 2 x Small barrel pull to seat terminal 6.3mm width suits cable size 1.00 - 2.00mm ²	

Time Control Units with Drop-out Delay

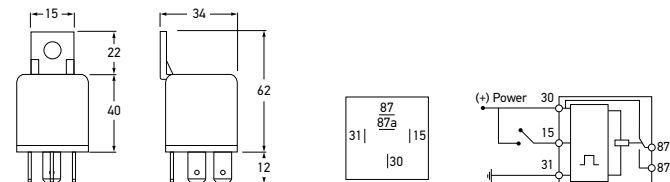
Relay with manually adjustable drop-out delay function, 0 – 900 seconds.



3086-12V	5HE 996 152-131	5 PIN	12 VOLT DC
3086-24V	5HE 996 152-141		24 VOLT DC
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection	IP 50 (Protection against dust)		
Switching terminal 15 starts timing.			

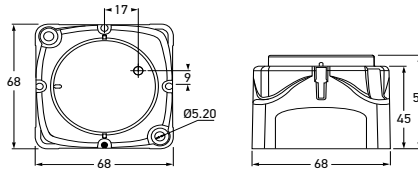
Time Control Units with Pick-up Delay

Relay with manually adjustable pick-up delay function, 0 – 900 seconds.



3087-12V	5HE 996 152-042	5 PIN	12 VOLT DC
3087-24V	5HE 996 152-171		24 VOLT DC
Maximum Load	Contact opened 10A Contact closed 20A/30min		
Protection	IP 50 (Protection against dust)		
Switching terminal 15 starts timing.			

RELAYS AND FLASHER UNITS



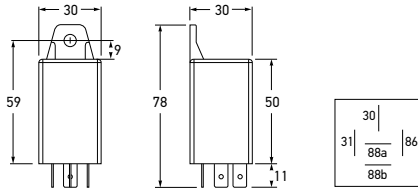
3099	4RD 980 830-001	12/24 VOLT DC
Voltage	Multivolt, suitable for 12 and 24 volt systems.	
Mounting	Recess or surface mount.	
Max. Continuous Load	140A	
Termination	2 x 6mm studs	

Voltage Sensitive Relay Module

Digital Voltage Sensitive Relay with dual sensing for 12 and 24 volt systems. Suitable for boats, caravans and 4WD vehicles, this relay allows a separate battery to be used independently from another battery permitting, for example, the starting battery not to be discharged. However when either battery is charged, the relay will connect both batteries to allow dual charging. Very low power consumption (less than 2mA) or none in power storage mode.



The Voltage Sensitive Relay installation must be protected by a suitably rated fuse.



3101	3101BULK	BOX OF 20
Voltage	Multivolt, suitable for 12 and 24 volt systems.	
Max. Continuous Load	5A	
Compliance		

Voltage Sensitive Relay (VSR)

The Voltage Sensitive Relay (VSR) is designed to automatically monitor the battery condition of your vehicle through constant voltage measurements. Then depending upon the voltage level the VSR will activate or deactivate the connected load to prevent the battery from over-discharging.



P/N 3101 Voltage Sensitive Relay

WIRING SPECIFICATIONS		PRE-SET VOLTAGE LIMITS AND OPERATION		
Terminal No.	Connect to	System Voltage	VSR turns outputs ON when	VSR turns outputs OFF when
30	Battery (+)	12V DC	Battery voltage is above 13.4V DC	Battery voltage is below 12.8V DC
31	Earth return (-)	24V DC	Battery voltage is above 26.8V DC	Battery voltage is below 25.6V DC
86	Activate (+) / Deactivate VSR (- or open)			
88a & 88b	Dual outputs (+)	Note	The pre-set voltage values stated above may vary by +/- 3%.	

4973	8JA 003 526-005	
4973BULK	8JA 003 526-006	PACK OF 30
Mounting	Single screw mounting.	
To Suit	4 and 5 pin relays with 6.3mm flat pin connectors.	

P/Ns 3076 and 3077 are not suitable for multiple installation using this connector.

Mini Relay Connector

Single screw mounting. Sturdy plastic casing. Supplied with 5 blade terminals. Several holders may be joined together or mated with fuse holder P/N 8704.



RELAYS



Technology with Vision



SAFETY DayLights™ SMART CONTROLLER



The smart controller is designed to simplify the installation of HELLA's LED Safety DayLights™ (SDL) range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

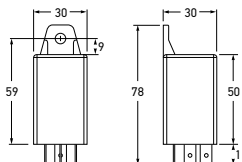
The smart controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.



Advanced and standard versions available.

safetydaylights.com

RELAYS AND FLASHER UNITS



3090	5DF 980 818-011 – (Advanced*)	
3090BULK	5DF 980 818-017 – (Advanced*)	Pack of 20
3091	5DF 980 818-001 – (Standard)	
3091BULK	5DF 980 818-007 – (Standard)	Pack of 20

Voltage	Multivolt, suitable for 12 and 24 volt DC systems.
Maximum Continuous Load	20W
To Suit	HELLA LED Safety DayLights™ range.

Features a Safety DayLights™ OFF delay of approximately 10 seconds.

RECOMMENDED INSTALLATION DIAGRAM FOR WIRING

WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Battery (+)
31	Earth return (-)
86	Front position or headlamps (+)
DL1 & DL2	Safety DayLights™ (+)

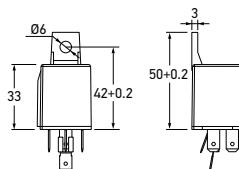
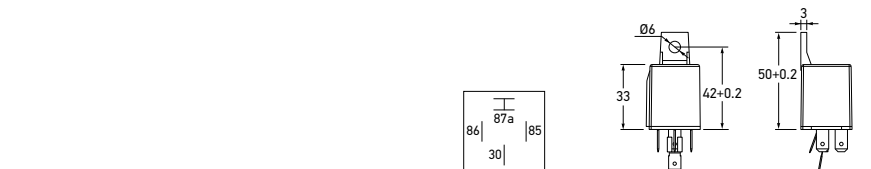
Safety DayLights™ Smart Controllers

This Smart Controller is designed to simplify the installation of HELLA's LED Safety DayLights™ range by eliminating the need to wire the lamp, or changeover relay to ignition terminal 15.

The Safety DayLights™ Smart Controller can be wired directly to the positive terminal of the battery, which saves the difficult and often time consuming task of finding the ignition feed.

The Smart Controller monitors the voltage supply from the battery and will automatically switch the Safety DayLights™ on when the engine is started, and automatically switch them off when the headlamps are activated, or the engine is turned off.

*Advanced version with vibration monitor for installation in vehicles with fuel saving alternators.



9.5630.03	5DF 980 816-041	12 VOLT DC
9.5636.03	5DF 980 816-061	
9.5630.04	5DF 980 816-541	24 VOLT DC
9.5636.04	5DF 980 816-561	

To Suit	P/N 9.5630.03 P/N 9.5636.03 P/N 9.5630.04 P/N 9.5636.04	P/Ns 1009, 5619, 5630, 5631 P/N 5636 P/Ns 1009-24V, 5619-24V, 5630-24V, 5631-24V P/N 5636-24V
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RECOMMENDED INSTALLATION DIAGRAM FOR WIRING

WIRING SPECIFICATIONS

Terminal Number	Connect to
30	Ignition (+)
85	Earth return (-)
86	Front position or headlamps (+)
87A	Safety DayLights™ (+)

Dual Function Safety DayLights™ Controllers

This Controller is designed to turn your HELLA Safety DayLights™ into front position lamps at night. The dual function controller is connected and activated by the headlamp of the vehicle.

The Dual Function Controller reduces the current to the Safety DayLights™ thus turning them into road legal* front position lamps. Only one controller is required for a pair of HELLA Safety DayLights™.

* Please note legally required spacing of front position lamps and only one pair of front position lamps is legally permitted.



RELAYS

HELLA COMPATIBILITY SOLUTION

HELLA HCS lamps, electronic control and flasher units are designed to the latest ISO International Standard to provide compatibility with commercial vehicle indicator failure systems.

Vehicles driven on public roads require the operation of direction indicator lamps to be monitored and a fault instantly signalled to the driver. Direction indicator lamps are an important road safety feature, signalling the direction change of the vehicle. Failure to signal or failure to recognise a direction indicator signal poses a significant risk of causing an accident.

LED direction indicator lamps offer a reliable Fit and Forget solution and have become the choice for cost conscious transport operators. LED lamps with their low power consumption and Multivolt features, are often a challenge for existing lamp failure detection systems on modern trucks and buses.

Transport fleets often feature a mix of trailers equipped with globe based lamps as well as trailers with full LED based lighting solutions. For the efficient operation of the fleet, each of these trailers should be compatible with the indicator failure detection systems of any of the trucks in the fleet, both now and in the future.

Some manufacturers recommend fitting additional resistive loads in parallel to the LED lamps, to simulate the 21 watts consumed by a traditional globe lamp.

Such pure resistive load solutions can be problematic for the following reasons:

- They mask the possible failure of the actual LED signal lamp itself.
- In many cases such pure resistive solutions do not function as they provide a linear time/current response which is significantly different to the time/current response of a globe filament when it heats up, as in the initial heat-up period the globes consume significantly more power than the rated 21 Watt.
- Additional parallel resistors consume a significant amount of energy and thus negate the lower power advantage that LED lamps offer.
- LED lamps marked with the HCS symbol feature patented indicator failure control technology which allows seamless communication with HELLA HCS control flasher units, or modern European trucks with body controllers compliant with the ISO 13207-1 standard.

International Organisation for Standardisation

The International Organisation for Standardisation (ISO) is a network of national standards bodies working together to develop International Standards. Currently ISO has members from 162 countries and 3,368 technical bodies working to a common goal of making international trade and industry more effective and efficient. The standards operate by global consensus, with many governments adopting the standards into their legislation.





“HELLA Australia has been instrumental in the development of the HELLA Compatibility System (HCS)”

ISO 13207-1 Standard

ISO 13207-1 specifies a precisely timed pulse for a low power LED lamp, which momentarily mimics the power consumption of a conventional incandescent globe. This pulse is suppressed when the LED direction indicator diagnoses itself as faulty. An ISO 13207-1 compatible flasher or vehicle body controller interprets the pulse suppression and alerts the driver to a faulty lamp or faulty wiring.

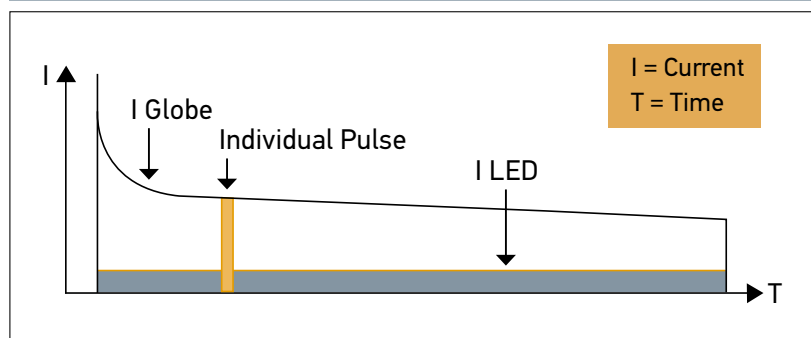
Body Control Modules or HCS flasher units together with LED lamps designed to ISO 13207-1 maintain the benefit of low power LED lamps, as opposed to a parallel resistor which increases the power consumption to that of a 21 watt globe.

HELLA Australia has been instrumental in laying the groundwork for the development of the HELLA Compatibility System (HCS), which became the blueprint for the ISO 13207-1 standard. HELLA HCS lamps are fully compliant with ISO 13207-1.

ISO 13207-1 has been agreed to by European truck manufacturers and will be incorporated into the vehicle monitoring electronics of European trucks.

Astute transport fleet operators are already future-proofing their trailers by specifying HELLA HCS Fit and Forget LED lighting solutions which will be plug-and-play with 24 volt European trucks.

HELLA lamps which incorporate HCS readily comply with ISO 13207-1.



The HCS innovation generates a pulse that simulates the current draw equivalent to an incandescent globe.

HELLA HCS Lamps



HELLA products throughout this catalogue displaying the HCS logo incorporate HELLA Compatibility Solutions technology.



P/N 2391



P/N 2133-CS



P/N 2378-CS



P/N 2431-CS



P/N 2151-HCS

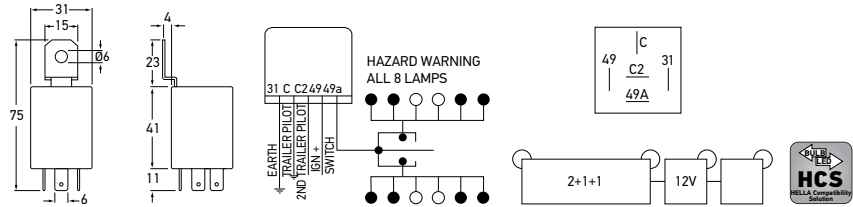


P/N 2146-HCS

A selection of HCS products.

HCS Electronic Flasher Unit 2+1+1

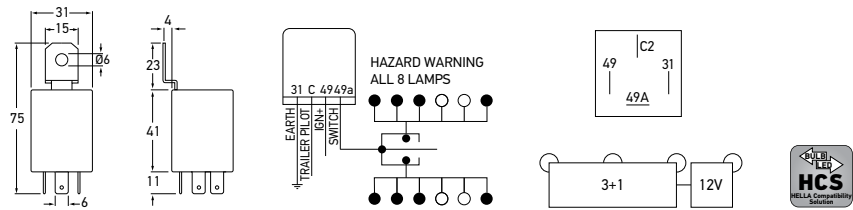
LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



3036	4DN 009 492-102	12 VOLT DC
Maximum Load	2+1+1(8) x HCS or 21W + 0-5W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 318-319 for further information on HCS Technology		

HCS Electronic Flasher Unit 3+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



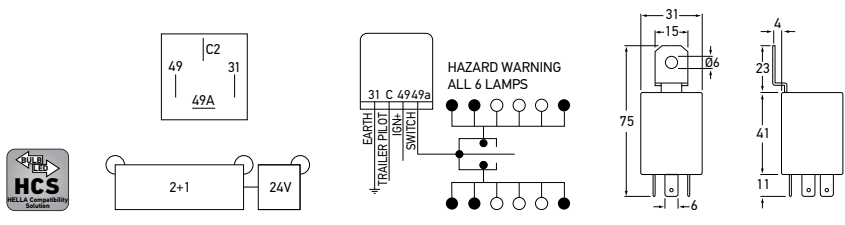
3039	4DW 009 492-112	12 VOLT DC
Maximum Load	3+1 (8) x HCS or 21W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 318-319 for further information on HCS Technology		

COMMON PIN DESIGNATIONS FOR FLASHER UNITS

Terminal Number	Description
49/X	Flasher input (+)
49a/L	Flasher output (+) to lamps or indicator switch
30b	Flasher input (+) from hazard switch
31	Earth (-)
C/C1/CP/P	Pilot lamp output (+)
C2	1st trailer pilot lamp output (+)
C3	2nd trailer pilot lamp output (+)

FLASHER UNITS

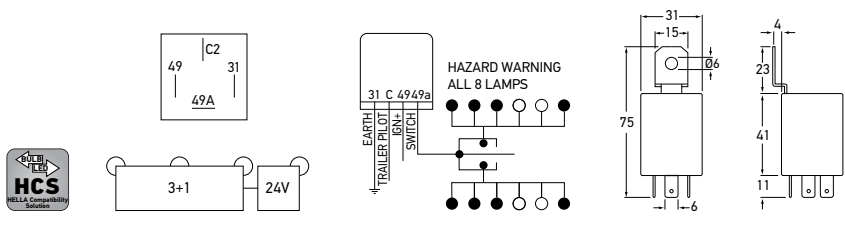
RELAYS AND FLASHER UNITS



3037	4DM 009 492-002	24 VOLT DC
Maximum Load	2+1 (6) x HCS or 21W + 0-5W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 318-319 for further information on HCS Technology		

HCS Electronic Flasher Unit 2+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



3038	4DW 009 492-012	24 VOLT DC
Maximum Load	3+1 (8) x HCS or 21W	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	
See page 318-319 for further information on HCS Technology		

HCS Electronic Flasher Unit 3+1

LED Compatible Flasher Unit specifically designed for use with HCS (HELLA Compatibility Solution) LED indicator lamps. Provides stable flash rate and reliable globe/LED lamp failure indication, for towing vehicles and trailers. Suitable to operate combinations of HCS LED and conventional 21W globe-type lamps.



5DS 009 552-011	24 VOLT DC
Operating Voltage	18 - 32V DC
Protection	IP 6K9K (Protection against dust and high pressure/steam jet cleaning)
See page 318-319 for further information on HCS Technology	

HCS Control Unit 24V

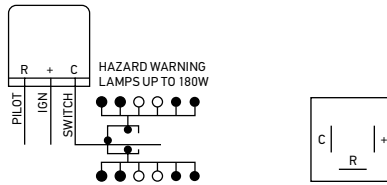
HCS LED indicator outage monitoring unit with 21 watt bulb current simulation. For vehicles without flasher units that carry out current measurement for the failure check. To be used for trucks with factory supplied fully integrated indicator control electronics. In combination with trucks/trailers fitted with HELLA HCS LED indicator lamps, the control unit simulates the time/current response of an incandescent bulb.



FLASHER UNITS

High Capacity Flasher Unit

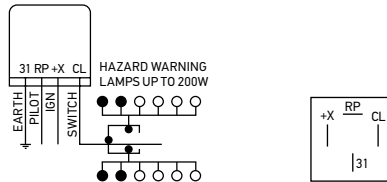
Heavy-Duty Flasher Unit manufactured to take up to 180W loads.



3014	4AZ 910 353-001	3 PIN	12 VOLT DC
Maximum Load	180W		

High Capacity Flasher Unit

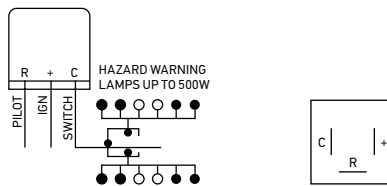
4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.



3014HD	4AZ 003 787-002	4 PIN	12 VOLT DC
Maximum Load	10-200W		
Note	Not suitable for extended periods of continuous use at maximum load. Maximum pilot lamp load 3W.		

High Capacity Flasher Unit

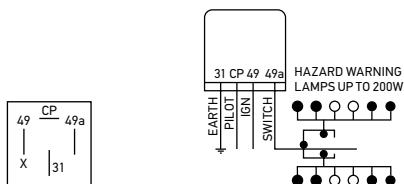
Heavy-Duty Flasher Unit manufactured to take up to 500W loads.



3015	4AZ 957 224-001	3 PIN	24 VOLT DC
Maximum Load	500W 100W continuous		
Note	Not suitable for extended periods of continuous use at maximum load. For pilot (warning) signal output from terminal "R" a minimum load of $2 \times 21W + 5W = 47W$ must be applied. With less than 47W load the pilot (warning) signal output from terminal "R" will not operate to indicate globe failure to the driver. Maximum pilot lamp load 3W.		

FLASHER UNITS

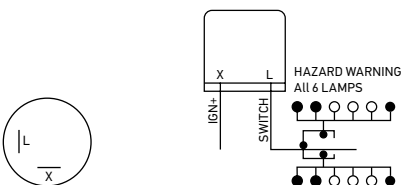
RELAYS AND FLASHER UNITS



3015HD	4AZ 003 787-023	4 PIN	24 VOLT DC
Maximum Load	10-200W		
Note	Not suitable for extended periods of continuous use at maximum load. Maximum pilot lamp load 3W.		

High Capacity Flasher Unit

4-Pin Heavy-Duty Electronic Flasher Unit designed to take up to 200W loads.



3008	4LZ 905 728-061	2 PIN	12 VOLT DC
Maximum Load	6 x 24W (32 cp)		

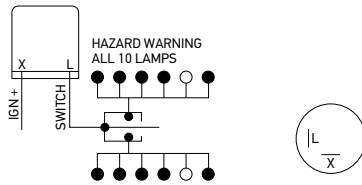
High Capacity Flasher Unit

2-Pin High-Capacity Flasher. Max. 6 lamps. Suitable for hazard warning applications.



High Capacity Flasher Unit

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.



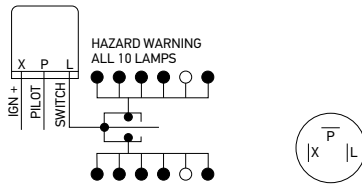
3026	4LZ 961 553-124		2 PIN	12 VOLT DC
Maximum Load		1-10 x 21W		

High Capacity Flasher Units

High Capacity Electronic Flasher Unit. Complete with bracket. Designed to take up to 210W loads. Reverse polarity protection, polycarbonate cover and silver contacts. Clear audible signal.



P/N 3027



3027	4LZ 961 553-133		3 PIN	12 VOLT DC
3028	4LZ 961 553-233			24 VOLT DC
Maximum Load		1-10 x 21W		

Universal Mounting Bracket

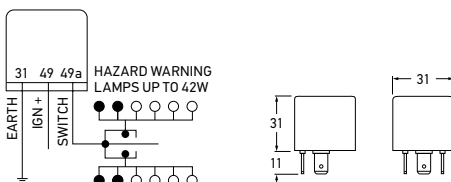
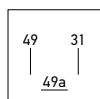
For mounting 32mm diameter HELLA Flasher Unit P/Ns 3026, 3027, 3028.

8003	8HG 002 156-001
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FLASHER UNITS

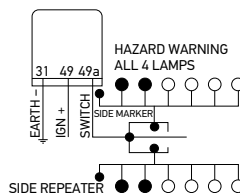
RELAYS AND FLASHER UNITS



3040	4JZ 177 846-007	3 PIN
Voltage	9-33V DC (suitable for 12V DC and 24V DC)	
Maximum Load	42W max.	
Frequency	90 +/- 30 flash signals per minute for direction indication and hazard warning.	
Protection	IP 53 (Protection against dust and water spray)	

Electronic Flasher Unit

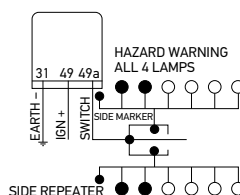
LED Compatible Flasher Unit for universal connection of LED indicator lamps without electronic pulse. Maintains the standard flash rate of 90 +/- 30 fpm and operates on globe and LED loads from 1W to 42W.



3016	4DB 003 750-722	3 PIN	12 VOLT DC
Maximum Load	2(4) x 21W + 0 - 5W		

Electronic Flasher Unit

To operate 2 or 3 lamps on either side of vehicle. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.



3016LED1	4DB 003 750-741	3 PIN	12 VOLT DC
3016LED2	4DB 003 750-751		
Maximum Load	Front direction indicator lamp	1(2) x 21W	
	Supplementary side direction indicator lamp	1(2) x 5W (P/N 3016LED2 only)	
	DuraLED direction indicator lamp	1(2) x 9W	

LED Electronic Flasher Units

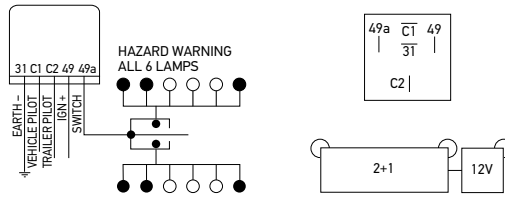
Modified version of P/N 3016 Electronic Flasher Unit. Specifically designed for use with DuraLED rear direction indicator lamps on motor vehicles such as prime movers, trucks and motor homes, maintaining the mandatory globe failure warning signal function.



FLASHER UNITS

Electronic Flasher Unit 2+1

Flasher Unit designed to operate 2 or 3 lamps on either side of a vehicle with caravan or trailer. Includes mounting bracket. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.

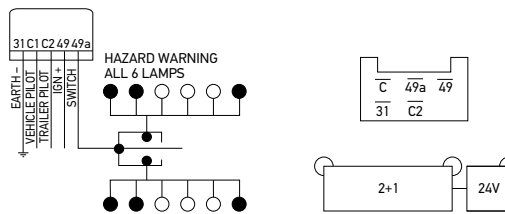


3017	4DM 003 460-022	5 PIN	12 VOLT DC
Maximum Load	2+1 (6) x 21W		



Electronic Flasher Unit 2+1

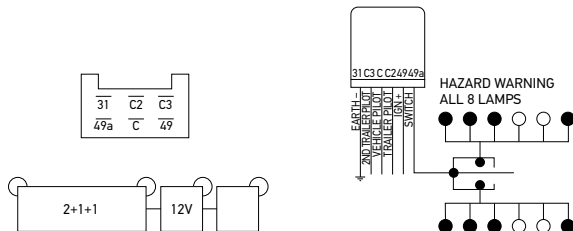
Flasher Unit designed to operate 2 or 3 lamps on either side of a vehicle with caravan or trailer. Includes mounting bracket. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.



3018	4DM 003 474-002	5 PIN	24 VOLT DC
Maximum Load	2+1 (6) x 21W		



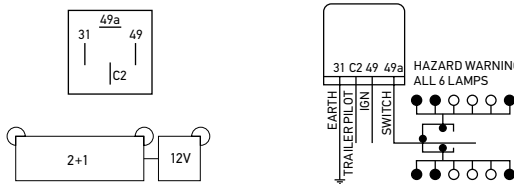
RELAYS AND FLASHER UNITS



Electronic Flasher Unit 2+1+1

To operate 2 lamps on either side of a towing vehicle plus an additional lamp on either side of each of two trailers. Separate pilot lamps indicate operation of flasher lamps on the trailers.

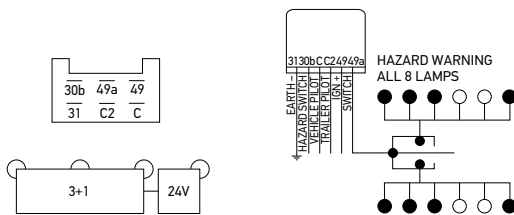
3033	4DN 008 768-022	6 PIN	12 VOLT DC
Maximum Load	2+1+1 (8) x 21W		



Caravan/Trailer Conversion Flasher Unit 2 + 1

Designed to enable operation of 2 or 3 lamps simultaneously. Incorporates a specially designed mechanism which automatically compensates as the wattage load is varied.

3035	4DM 003 360-021	4 PIN	12 VOLT DC
Maximum Load	2+1 (6) x 21W + 0-5W		



Electronic Flasher Unit 3+1

For heavy trucks with trailers. With mounting bracket. To operate 3 lamps on either side of towing vehicle, plus an additional lamp on either side of a trailer. Separate pilot lamp indicates operation of flasher lamp on the trailer. Incorporates hazard warning flasher system when used in conjunction with HELLA switch P/N 5227.

3032	4DW 003 944-052	6 PIN	24 VOLT DC
Maximum Load	3+1 (8) x 21W		



FLASHER UNITS

Accessories

Create New Possibilities

Selected for precision and compatibility.
Components for visibly improved performance.



Customisation provided by quality accessories makes new applications possible. Confidently do more than before.



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HELLA ACCESSORIES

LATEST TECHNOLOGY, EXTENSIVELY TESTED

HELLA's range of accessories perfectly complements its range of lighting products. HELLA accessories offer the latest in design, technology and features. All HELLA accessory products are extensively tested for quality, durability and function prior to being offered under the HELLA brand.

▽ HCS – Patented LED Direction Indicator Failure Check

HELLA's patented HCS design is a revolutionary technology offering seamless compatibility of lamp failure indication in vehicles equipped with conventional globe type lamps and HELLA HCS LED direction indicators.

HELLA offers LED compatible flasher units for standard industry configurations, which make it possible to convert the indicator failure display for various vehicles. This is necessary if the vehicle manufacturer does not guarantee indicator globe failure control via the vehicle wiring system. The flasher unit recognises either a standard globe type lamp, or HELLA HCS LED lamp or a mixture thereof.

MagCode® Power Outlet Systems

MagCode® power systems are revolutionary power outlet systems for 12 and 24V DC circuits. Unlike conventional connectors, MagCode® power systems utilise magnetically coded flat contacts, delivering safe power across modular components far superior to the ubiquitous cigarette lighter sockets.

Both port (outlet) and clip (connector) feature powerful magnets with integral switching function ensuring a stable connection and safe power supply. Other metal objects or permanent magnets cannot energise the contacts at any time, making the outlet completely safe and 100% short-circuit-proof.

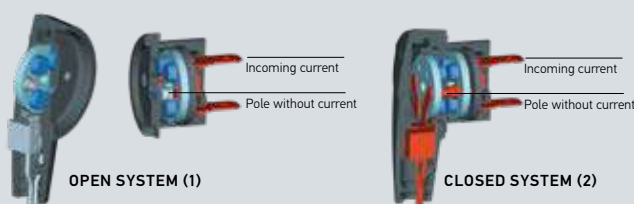
The advanced Power System Plus for higher power circuits features an additional mechanical twist lock offering even greater security (higher separation forces) and reliable prevention of arcing.

A protective cap is available for power ports to provide maximum environmental protection when mounted externally.

MagCode® Features:

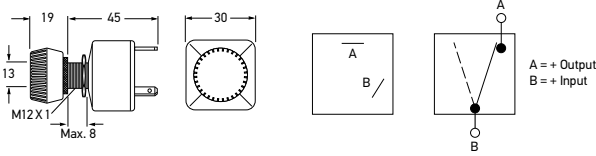
- Latest high-tech design
- Stable connection
- 100% short-circuit-proof
- Easy to install
- Minimal mounting depth (port)
- Up to 25A current load
- Dust and water resistant
- Easy to clean
- Novel coded system to avoid inadvertent connection of 12V and 24V products

The advanced MagCode® power outlet system utilises a unique magnetic connection that delivers stable and safe power.



COLOUR CODE: ● Permanent Magnets ● Plate With Permanent Magnets ● Voltageless ● Under Current

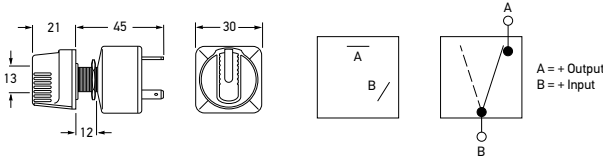
ACCESSORIES



4020	6EB 905 341-001	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

Rotary Switch Off-On

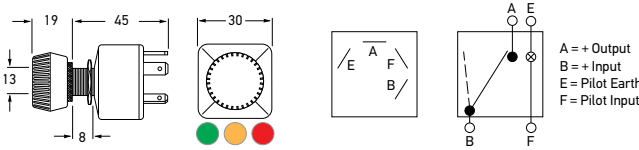
Rotary Switch with round knob.



4021	6EB 905 341-011	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V DC 7.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

Rotary Switch Off-On

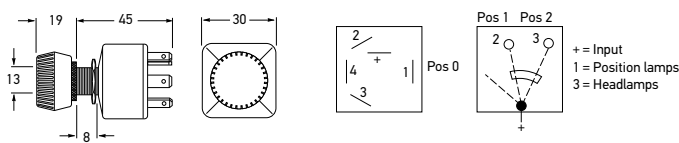
Rotary Switch with flat knob.



4022	6EB 905 341-021	OFF-ON
Mounting	12.5mm diameter opening.	
Maximum Load	15A @ 12V DC	
Protection	IP 53 (Protection against dust and water spray)	
Suitable for 12V DC only. Globe not replaceable.		

Illuminated Rotary Switch Off-On
12 Volt

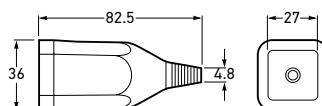
Illuminated by inbuilt 12V capillary Globe, complete with red, amber and green lenses.



4023	6EB 904 341-031	OFF-ON-ON
Mounting	12.5mm diameter opening.	
Maximum Load	23A @ 12V DC 11.5A @ 24V DC	
Protection	IP 53 (Protection against dust and water spray)	

Rotary Headlamp Switch Off-On-On

Rotary Switch with round knob.



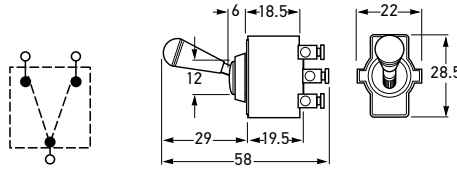
4024	96H 905 342-001	OFF-ON
To Suit	Parts No.s 4020-4023.	

Rubber Sealing Boot



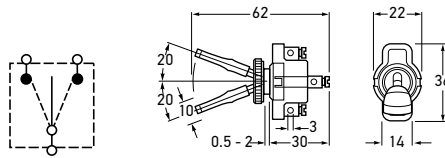
ACCESSORIES

Changeover Switch On-On



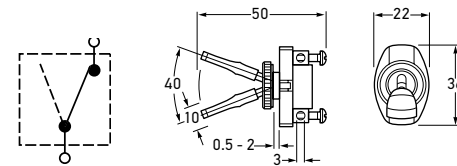
4150	6FG 002 312-003		ON-ON
Mounting	13mm diameter opening.		
For Panels	Up to 2mm thick.		
Maximum Load	8A @ 12V DC 4A @ 24V DC		

Toggle Switch On-Off-On



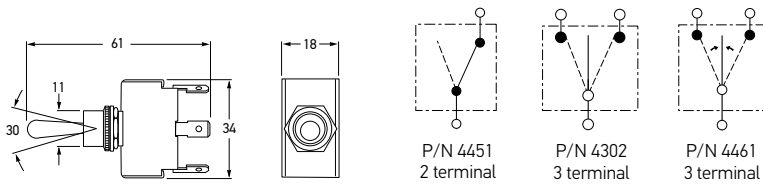
4300	6BG 001 545-003		ON-OFF-ON
Mounting	13mm diameter opening.		
For Panels	Up to 2mm thick.		
Maximum Load	8A @ 12V DC 4A @ 24V DC		

Switch Off-On



4450	6EG 001 567-012		OFF-ON
Mounting	13mm diameter opening.		
For Panels	Up to 2mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

ACCESSORIES

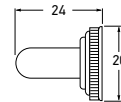


4451	6EH 905 359-001		OFF-ON
4302	6FG 905 348-001		ON-OFF-ON
4461	6EH 905 362-001 – (Momentary spring return)		(ON)-OFF-(ON)
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	20A @ 12V DC 10A @ 24V DC		

Metal Shaft Toggle Switches



P/N 4451



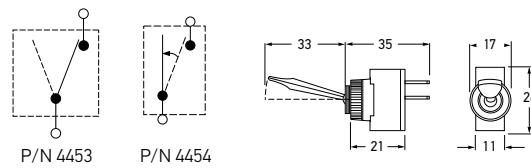
Toggle Boot

To be used with toggle switches.



4452	6EH 905 360-001	
To Suit	Toggle switch P/Ns 4302, 4451 and 4461.	

Plastic Toggle Switches



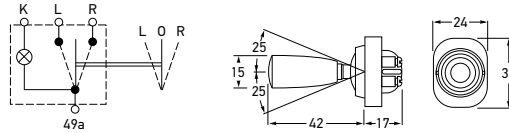
4453	6EH 905 361-001		OFF-ON
4454	6EH 905 361-011 – (Momentary spring return)		OFF-(ON)
Mounting	13mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	8A @ 12V DC		



P/N 4453

**Illuminated Toggle Switch
On-Off-On**

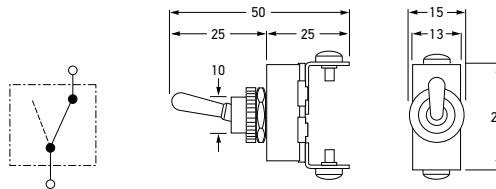
Three position latching switch for indicators.
Illuminates green.



4206	6FG 905 347-001		ON-OFF-ON
Voltage	12V: globe to be ordered separately		
Mounting	19mm diameter opening.		
For Panels	Up to 2mm thick.		
Maximum Load	6A @ 12V DC		
Globes to Suit	12V 292 To be ordered separately.		

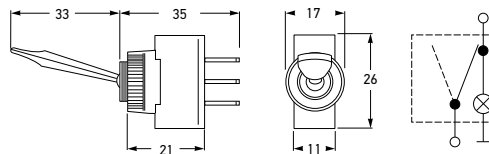
Brass Toggle Switch Off-On

Chrome toggle and face nut. Brass construction.



2762	6EG 905 310-001		OFF-ON
Mounting	11mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	20A @ 12V DC 10A @ 24V DC		
Toggle boot P/N 4452 does not fit this switch.			

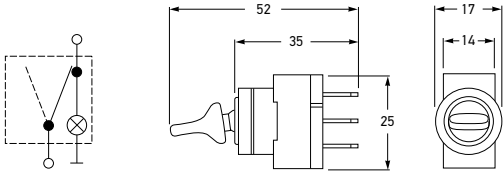
**Illuminated Toggle Switches
Off-On 12 Volt**



4433	6EG 905 354-001		RED
4434	6EG 905 354-011		GREEN
4435	6EG 905 354-021		AMBER
4436	6EG 905 354-031		BLUE
Mounting	12.5mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC		
Suitable for 12V DC only. Globe not replaceable.			



ACCESSORIES



4421	6EG 905 351-011		RED
4422	6EG 905 351-021		GREEN
4423	6EG 905 351-031		BLUE
4424	6EG 905 351-041		AMBER
Mounting	12.5mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC		
Suitable for 12V DC only. Globe not replaceable.			

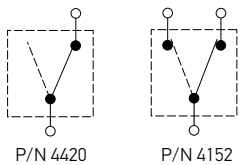
Illuminated Duckbill Switches
Off-On 12 Volt



P/N 4422

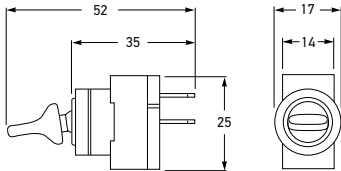
P/N 4423

P/N 4424



P/N 4420

P/N 4152

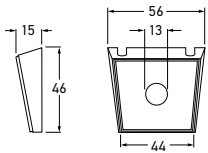


4420	6EG 905 351-001		OFF-ON
4152	6FG 905 345-001		ON-ON
Mounting	12.5mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

Duckbill Switches



P/N 4152



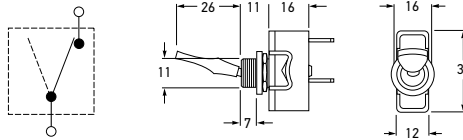
4437	8HG 950 709-001		SINGLE
Mounting	12.5mm diameter opening.		

Switch Mounting Panel

Single Switch Mounting Panel. Plastic moulded with black grain finish.



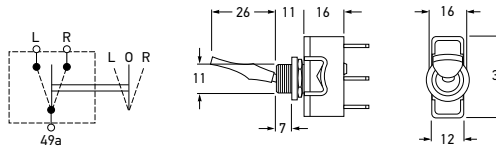
Toggle Switch Off-On



4456	6EH 905 361-021		OFF-ON
Mounting	13mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	15A @ 12V DC 7.5A @ 24V DC		

Toggle Switch On-Off-On

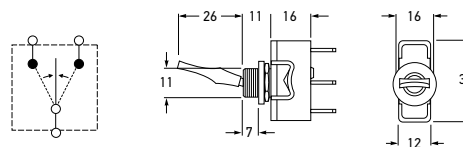
Toggle switch, suitable for controlling direction indicator lamps.



4202	6FG 905 346-001		ON-OFF-ON
Mounting	13mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	15A @ 12V DC 7.5A @ 24V DC		

Momentary Spring Return Switch (On)-Off-(On)

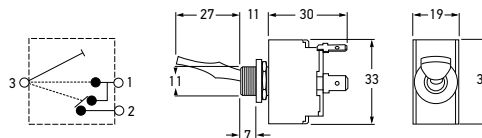
Momentary on-off-on, spring return aerial switch. Flick toggle with spring return to centre.



4460	6EH 905 361-031		(ON)-OFF-(ON)
Mounting	13mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	15A @ 12V DC 7.5A @ 24V DC		

Headlamp Switch Off-On-On

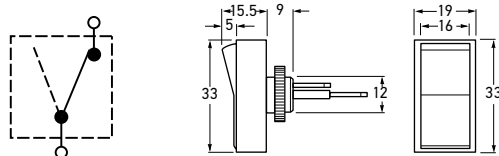
Three position switch:
Upper = Off
Centre = Position lamps
Lower = Headlamps and position lamps



4056	6FG 905 343-011		OFF-ON-ON
Mounting	13mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	20A @ 12V DC 10A @ 24V DC		

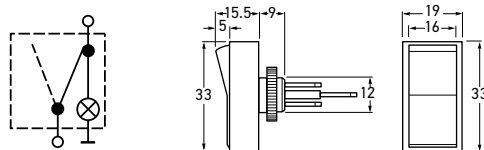
ACCESSORIES

Rocker Switch Off-On



4439	6EH 905 356-001		OFF-ON
Mounting	12.5mm diameter opening.		
For Panels	Up to 12mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

Illuminated Rocker Switches Off-On 12 Volt



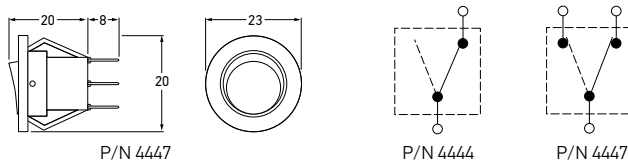
Push-on terminals.



4440	6EH 905 356-011		RED
4441	6EH 905 356-021		GREEN
4442	6EH 905 356-031		AMBER
4443	6EH 905 356-041		BLUE
Mounting	12.5mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC		
Suitable for 12V DC only. Globe not replaceable.			

Rocker Switches

Panel push fit.



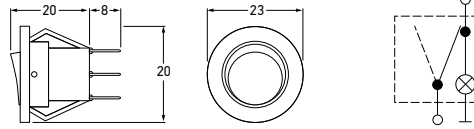
4444	6EH 905 357-001		OFF-ON
4447	6FH 905 357-031		ON-ON
Mounting	20mm diameter opening.		
For Panels	Up to 4mm thick.		
Maximum Load	10A @ 12V DC		

**Illuminated Rocker Switches
Off-On 12 Volt**

Panel push fit.



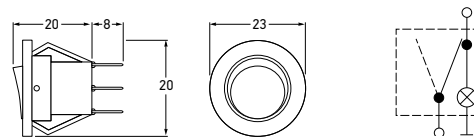
P/N 4446



4445	6EH 905 357-011	■ AMBER
4446	6EH 905 357-021	■ RED
Mounting	20mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. Globe not replaceable.		

**LED Rocker Switch
Off-On 12 Volt DC**

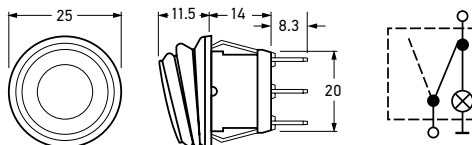
Panel push fit.



4448	6EH 905 357-041	■ RED
Mounting	20mm diameter opening.	
For Panels	Up to 4mm thick.	
Maximum Load	10A @ 12V DC	
Suitable for 12V DC only. LED included, not replaceable.		

**Illuminated Compact LED
Rocker Switches Off-On**

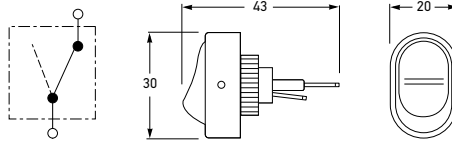
Compact, Heavy-duty LED illuminated Rocker Switches featuring durable nylon frame and waterproof rubber sealing boot for additional protection in industrial environments. Push-on terminals.



HM4400A	9MK 910 086-241 – 24V DC	■ AMBER
HM4400A-12V	9MK 910 086-001 – 12V DC	■ AMBER
HM4400B	9MK 910 086-251 – 24V DC	■ BLUE
HM4400B-12V	9MK 910 086-011 – 12V DC	■ BLUE
HM4400G	9MK 910 086-261 – 24V DC	■ GREEN
HM4400G-12V	9MK 910 086-021 – 12V DC	■ GREEN
HM4400R	9MK 910 086-271 – 24V DC	■ RED
HM4400R-12V	9MK 910 086-031 – 12V DC	■ RED

Voltage	12V DC (non-replaceable LED included) 24V DC (non-replaceable LED included)
Mounting	20mm diameter opening.
For Panels	Up to 2.5mm thick.
Maximum Load	20A @ 12V DC 10A @ 24V DC
Suitable for 12V DC only. LED included, not replaceable.	

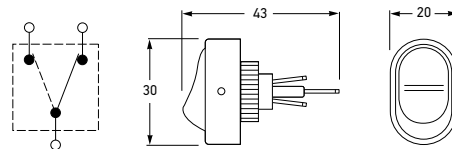
Rocker Switch Off-On



4470	6EH 905 363-001		OFF-ON
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V DC		



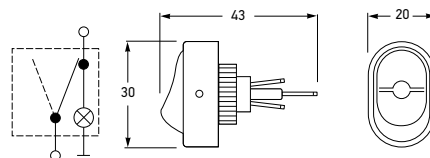
Rocker Switch On-On



4475	6EH 905 363-051		ON-ON
Mounting	12mm diameter opening.		
For Panels	Up to 5mm thick.		
Maximum Load	10A @ 12V DC		



Illuminated Rocker Switches
Off-On 12 Volt



4471	6EH 905 363-011			AMBER
4472	6EH 905 363-021			BLUE
4473	6EH 905 363-031			GREEN
4474	6EH 905 363-041			RED
Mounting	12mm diameter opening.			
For Panels	Up to 5mm thick.			
Maximum Load	10A @ 12V DC			
Suitable for 12V DC only. Globe not replaceable.				

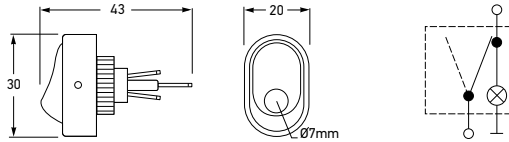


P/N 4472

P/N 4473

P/N 4474

**Illuminated Rocker Switches
Off-On 12 Volt**



4476	6FH 905 363-061		AMBER
4477	6FH 905 363-071		GREEN
4478	6FH 905 363-081		RED

Mounting 12mm diameter opening.

For Panels Up to 5mm thick.

Maximum Load 10A @ 12V DC

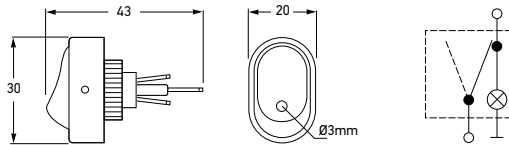
Suitable for 12V DC only. Globe not replaceable.



P/N 4477

P/N 4478

**LED Rocker Switches Off-On
12 Volt DC**



4479	6FH 905 363-091		AMBER
4480	6FH 905 363-101		GREEN
4481	6FH 905 363-111		RED

Mounting 12mm diameter opening.

For Panels Up to 5mm thick.

Maximum Load 10A @ 12V DC

Suitable for 12V DC only. LED included, not replaceable.

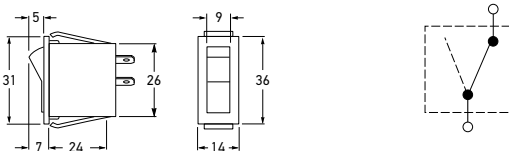


P/N 4480

P/N 4481

Rocker Switch Off-On

Panel push fit.



4426	6EH 905 352-001		OFF-ON
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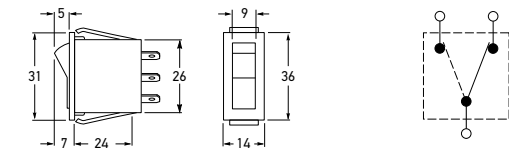
Mounting 29 x 12mm opening.

Maximum Load 10A @ 12V DC
5A @ 24V DC

ACCESSORIES

Rocker Switch On-On

Panel push fit.

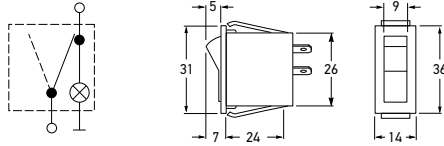


4151	6FH 004 406-053		ON-ON
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Mounting 29 x 12mm opening.

Maximum Load 10A @ 12V DC
5A @ 24V DC

ACCESSORIES



4427	6EH 905 352-011		RED
4428	6EH 905 352-021		GREEN
4429	6EH 905 352-031		BLUE
4430	6EH 905 352-041		AMBER

Mounting 29 x 12mm opening.

Maximum Load 10A @ 12V DC

Suitable for 12V DC only. Globe not replaceable.

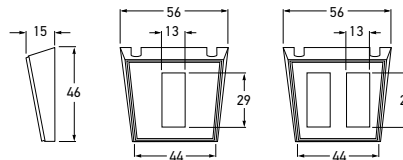
Illuminated Rocker Switches
Off-On 12 Volt

Panel push fit.



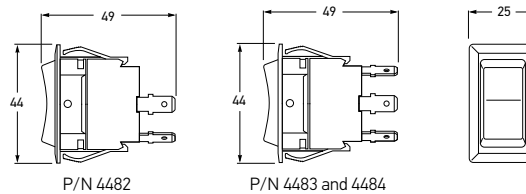
Rocker Switch Mounting Panels

Plastic moulded with black grain finish.



4431	8HG 905 353-001		SINGLE
4432	8HG 905 353-011		DOUBLE

To Suit Rocker switch P/Ns 4426, 4427, 4428, 4429, 4430 and 4151.



4482	6FH 905 364-001		OFF-ON
4483	6FH 905 364-011		ON-OFF-ON
4484	6GH 905 364-021 – (Momentary spring return)		(ON)-OFF-(ON)

Mounting 20 x 36mm opening.

For Panels Up to 4mm thick.

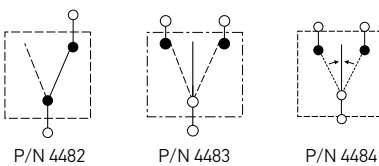
Maximum Load 25A @ 12V DC
12.5A @ 24V DC

Heavy Duty Rocker Switches

Extremely robust Rocker Switch featuring push-on terminals and weather resistant black plastic housing. Panel push fit.



P/N 4483



P/N 4482

P/N 4483

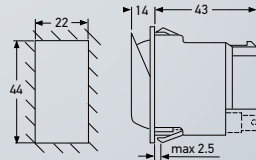
P/N 4484

HELLA Universal Rocker Switches

HELLA universal flush-fit rocker switches are readily adaptable to 12 and 24V applications. This large and varied range covers nearly all switching types and connections. A wide selection of symbols ensures proper labelling of all main switching and monitoring functions. The switching and control displays can be illuminated.



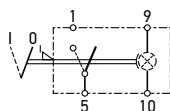
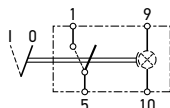
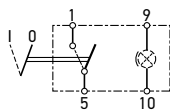
Mounting	Mounted directly to properly dimensioned opening (1 - 2.5mm thick) or by mounting panels (for more information see page 344).
Maximum Load	16A @ 12V, 8A @ 24V.



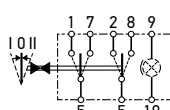
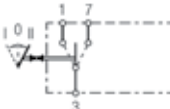
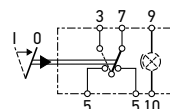
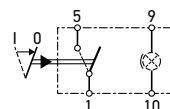
Connectors, symbols, mounts and globe holders are to be purchased separately.



Location lamp illuminates lamp with park lights. Pilot lamp illuminates when switch is in the 'on' position.

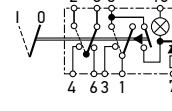
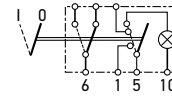
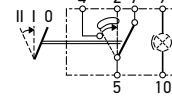
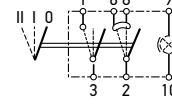
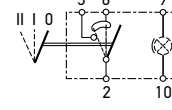
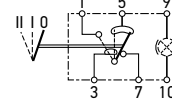
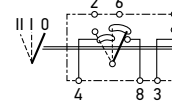
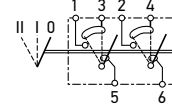
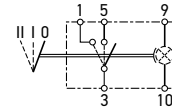
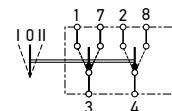
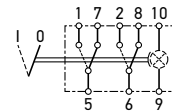
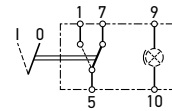
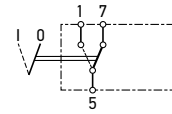


ON-OFF SWITCHES			
	Symbol	Description	Function
6EH 007 832-011	LOCATION	Suitable for use with location light.	ON-OFF
6EH 007 832-021	PILOT	Suitable for use with location and pilot light.	
	LOCATION		
6EH 007 832-041	PILOT	With mechanism for blocking operation. Suitable for use with location light and pilot light.	
	LOCATION		



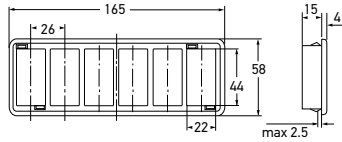
MOMENTARY SPRING RETURN SWITCHES			
	Symbol	Description	Function
6GM 007 832-191	LOCATION	Suitable for use with location light.	OFF-(ON)
6GM 007 832-221	LOCATION	Suitable for use with location light.	CHANGE-OVER
6GM 007 832-231		Without location light, without pilot light.	CHANGE-OVER
6GM 007 832-251	LOCATION	Suitable for use with location light.	(ON)-OFF-(ON)

CHANGE-OVER SWITCHES			
	Symbol	Description	Function
6FH 007 832-051		Without location light, without pilot light.	ON-ON
6FH 007 832-061	LOCATION	Suitable for use with location light.	
6FH 007 832-101	PILOT LOCATION	Suitable for use with location light and pilot light.	
6FH 007 832-131		Without location light, without pilot light.	ON-OFF-ON
6FH 007 832-161		Without location light, without pilot light.	ON-OFF-ON
6RH 007 832-351	PILOT LOCATION	Suitable for use with location light and pilot light.	OFF-ON-ON
6RH 007 832-377	PILOT LOCATION	Suitable for use with location light and pilot light.	
6RH 007 832-381		Without location light, without pilot light.	
6RH 007 832-391	LOCATION	Max. load 16A @ 12V, 8A @ 24V. Suitable for use with location light, without pilot light.	
6RH 007 832-441	LOCATION	Suitable for use with location light.	
6RH 007 832-461	LOCATION	Suitable for use with location light.	
6RH 007 832-411	LOCATION	Suitable for use with location light.	OFF-ON-MOMENTARY ON
6HH 007 832-281	PILOT	Max. load 10A @ 12V and 24V. Without location light. Includes pre-fitted 12V globe. Hazard flasher switch.	HAZARD
6HH 007 832-301	PILOT LOCATION	With location light and pilot light. Includes pre-fitted 24V globe. Hazard flasher switch.	



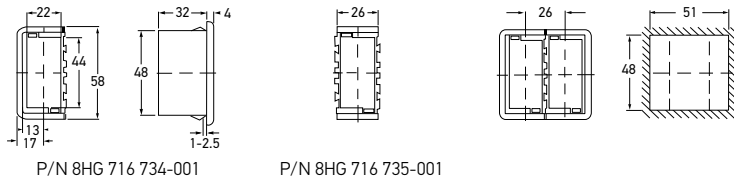
See page 346 for the range of coloured symbols.

Mounting Panels for Universal Rocker Switches



8HG 713 626-001 (156.1 x 48.2mm) – Mounting Panels	SIX SWITCHES
8HG 714 504-001 (77.6 x 48.2mm) – Mounting Panels	THREE SWITCHES

Modular Mounting Panel System for Universal Rocker Switches



8HG 716 734-001 – Modular Mounting Panel System	END PIECE
8HG 716 735-001 – Modular Mounting Panel System	MIDDLE PIECE

Two end pieces are required to make a mounting panel.
By adding middle pieces, this panel can be extended as required.

Blanking Plug for Universal Rocker Switches



9HB 713 629-001 – Blanking Plug for Empty Switch Apertures
--

Warning Lights for Universal Rocker Switches



2AA 713 628-021 – Warning Lights	12 VOLT
2AA 713 628-031 – Warning Lights	24 VOLT
2AA 713 628-041 – LED Warning Lights	12/24 VOLT DC

Globes to Suit	12V	W121.2
	24V	W241.2



Side view

Warning Lights for Universal Rocker Switches



9FF 713 627-001 – Warning Lights	12 VOLT
9FF 713 627-011 – Warning Lights	24 VOLT
9FF 713 627-031 – LED Warning Lights	12/24 VOLT DC

Globes to Suit	12V	W121.2
	24V	W241.2



9FF 713 627-011 9FF 713 627-031 (LED)

Connectors for Universal Rocker Switches

8JA 713 631-001 – Connectors for switch	8 POLE
8JA 715 600-001 – Connectors for globe holder	2 POLE
8573	8KW 905 512-031 – Connectors - Pack of 100 BRASS TERMINALS



P/N 8JA 713 631-001












































P/N 8JA 715 600-001



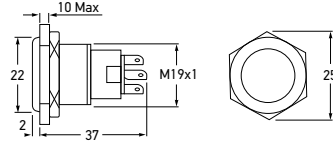
P/N 8573

Symbol Cards for HELLA Universal Rocker Switches 007 832...

	Symbol	Symbol Card		Symbol	Symbol Card
9XT 713 630-001	Green	Without symbol	9XT 714 300-201		Battery
9XT 713 630-011	Black	Without symbol	9XT 714 300-191		Temperature
9XT 713 630-021	Red	Without symbol	9XT 713 630-181		Window lift
9XT 713 630-031	Yellow	Without symbol	9XT 713 630-101		Windscreen
9XT 713 630-301		Light	9XT 713 630-121		Window wiper/wash
9XT 714 300-131		Main beam	9XT 713 630-131		Windscreen wash
9XT 713 630-351		Fog lamp	9XT 713 630-231		Heated rear window
9XT 713 630-421		Work lamp front	9XT 713 630-481		Heated outside mirror
9XT 713 630-701		Work lamp rear	9XT 713 630-521		Defroster
9XT 714 300-141		Flasher lamp	9XT 713 630-461		Air horn
9XT 713 630-391		Warning lamp	9XT 713 630-291		Fresh air
9XT 713 630-511		Map lamp	9XT 713 630-681		Roof fan
9XT 713 630-491		Driving compartment lighting	9XT 713 630-201		Heater
9XT 713 630-641		Boot lighting	9XT 713 630-221		Heater fan
9XT 713 630-261		Main light	9XT 713 630-401		Fast
9XT 713 630-371		Work light	9XT 713 630-691		Slow
9XT 713 630-281		Rotating beacon	9XT 713 630-551		Front door
9XT 713 630-711		Rotating beacon	9XT 713 630-561		Rear door
9XT 714 300-181		Lubrication	9XT 713 630-621		Lower
9XT 714 300-011		Parking brake	9XT 714 300-051		Change-over tanks
Interior Lighting			Fan		
9XT 713 630-271		High	9XT 713 630-251		Fast
9XT 714 300-031		Medium	9XT 713 630-531		Slow
9XT 713 630-501		Low			

ACCESSORIES

ACCESSORIES



8HG 958 455-001 – 12 Volt DC	☑	RED
8HG 958 455-011 – 12 Volt DC	☑	BLUE
8HG 958 455-101 – 24 Volt DC	☑	RED
8HG 958 455-111 – 24 Volt DC	☑	BLUE

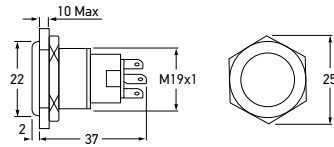
Mounting	19mm diameter opening.
Maximum Load	5A
Protection	IP 67 (Protection against dust and temporary water immersion). From front when mounted.
For Panels	Up to 10mm thick.

Stainless Steel Latching Switches with LED Ring Off-On

Durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.



P/N 8HG 958 455-011



8HG 958 455-201 – 12 Volt DC	☑	RED
8HG 958 455-211 – 12 Volt DC	☑	BLUE
8HG 958 455-301 – 24 Volt DC	☑	RED
8HG 958 455-311 – 24 Volt DC	☑	BLUE

Mounting	19mm diameter opening.
Maximum Load	5A
Protection	IP 67 (Protection against dust and temporary water immersion). From front when mounted.
For Panels	Up to 10mm thick.

Stainless Steel Momentary Switches with LED Ring Off-(On)

Durable, 304 Stainless Steel Switches featuring a ring of LED light. These through panel mount switches are ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation.



P/N 8HG 958 455-211



8HG 958 456-001 – 12 Volt DC	☑	RED
8HG 958 456-101 – 24 Volt DC	☑	RED

Mounting	19mm diameter opening.
Sound Level	>80dB (1m)
Protection	IP 50 (Protection against dust)
For Panels	Up to 10mm thick.

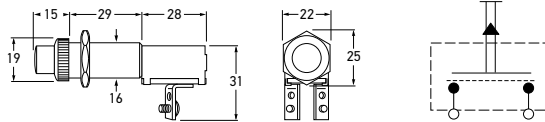
Stainless Steel Buzzers with LED Ring

Durable, 304 Stainless Steel Warning Buzzer to match stainless steel switches (above). Also feature a ring of LED light.



Momentary Spring Return Push Button Starter Switch Off-(On)

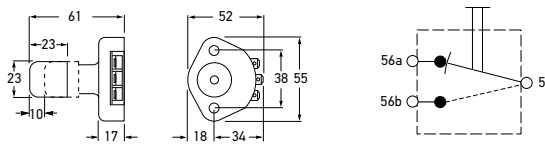
Brass construction. Chrome plated face nut and button. Off-momentary on push button (spring return).



2763	6JF 905 311-001	OFF-(ON)
Mounting	16mm diameter opening.	
For Panels	Up to 25mm thick.	
Maximum Load	20A @ 12V DC 10A @ 24V DC	

Foot Operated Dipper Switch

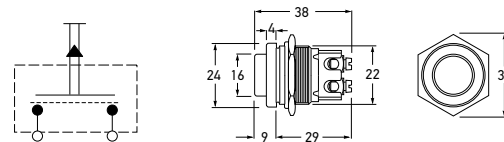
Push on terminals. Latching spring return mechanism.



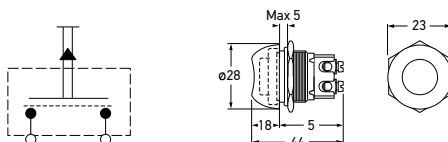
4100	6EJ 905 344-001	ON-ON
Mounting	Surface mount.	
Maximum Load	12A @ 12V DC 6A @ 24V DC	

Momentary Spring Return Push Button Switch Off-(On)

Off-momentary on push button (spring return) switch.



4501	6JF 001 571-002	OFF-(ON)
Mounting	22.5mm diameter opening.	
For Panels	Up to 6mm thick.	
Maximum Load	16A @ 12V DC 8A @ 24V DC	

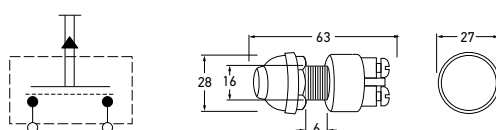


Momentary Spring Return Push Button Switch Off-(On)

Water resistant push button type switch with rubber cap. Off-momentary on push button (spring return).



4503	6JF 001 571-003	OFF-(ON)
Mounting	22.5mm diameter opening.	
For Panels	Up to 2mm thick.	
Maximum Load	16A @ 12V DC 8A @ 24V DC	
Do not remove rubber cap/front face nut when fitting.		



Momentary Spring Return Push Button Switch Off-(On)

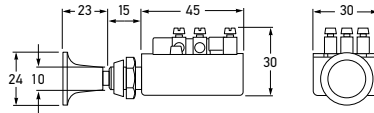
Water resistant starter switch. Off-momentary on push button (spring return).



4506	6JB 905 371-001	OFF-(ON)
Mounting	16mm diameter opening.	
For Panels	Up to 10mm thick.	
Maximum Load	60A @ 12V DC 40A @ 24V DC	

Headlamp Switch Off-On-On

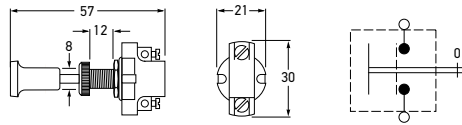
Three position headlamp switch without pilot lamp. Features black grip and 20 amp glass fuse.



4055	6RD 905 343-001		OFF-ON-ON
Mounting	11mm diameter opening.		
For Panels	Up to 10mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

Long Reach Switch Off-On

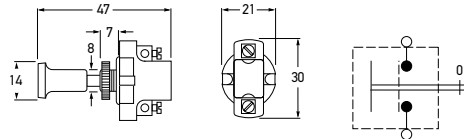
Two position long reach switch.



4400	6ED 001 563-005		OFF-ON
Mounting	9mm diameter opening.		
For Panels	Up to 12mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

Short Reach Switch Off-On

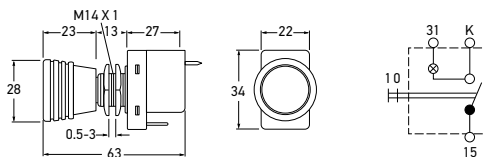
Two position short reach switch.



4403	6ED 001 563-012		OFF-ON
Mounting	9mm diameter opening.		
For Panels	Up to 2mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		

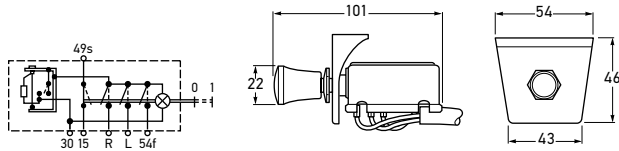
Illuminated Switches Off-On

Knob incorporates red or green pilot lamp.



4411	6ED 004 778-023		GREEN
4412	6ED 004 778-013		RED
Mounting	14mm diameter opening.		
For Panels	Up to 6mm thick.		
Maximum Load	10A @ 12V DC 5A @ 24V DC		
Globes to Suit	12V DC 24V DC	W121.2 W241.2	Globe to be ordered separately. Globe to be ordered separately.

ACCESSORIES



5225	6HD 002 535-032	12V DC
5226	6HD 002 535-112	24V DC
Mounting	12mm diameter opening.	
Voltage	12V DC (Globe included) 24V DC (Globe included)	
For Panels	Up to 7mm thick.	
Globes to Suit	12V DC W121.2 24V DC W243	
Note	Not suitable for extended periods of continuous use	

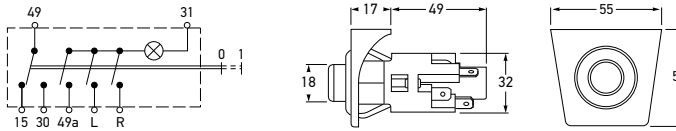
Hazard Warning Switches

Operates all the flasher lamps of a 12V DC or 24V DC vehicle (and trailer) simultaneously. Red knob with pilot lamp. Complete with cables, terminals and wiring instructions for easy installation.



Hazard Warning Switch

For cars, trucks, buses with and without trailers. Black plastic mounting panel. Red knob with pilot lamp. Includes 8 pole multiple adaptor. Push-on 6mm terminals supplied. Wiring diagram and instructions are included.

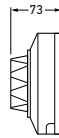
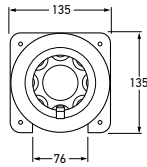


5227	6HF 001 579-051	OFF-ON
Mounting	29mm diameter opening.	
Maximum Load	7A @12V DC	
For Panels	Up to 3mm thick.	
Globes to Suit	12V DC J122 Globe to be ordered separately. 24V DC J243 Globe to be ordered separately.	



Heavy Battery Master Switch

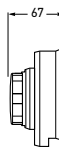
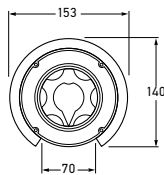
Enables switching between battery 1 and 2 or linking up of both batteries for extra power. May also be used as a manual isolator for charging batteries.



2765	6EK 005 519-002		OFF-1-2-BOTH
Maximum Load	175A @12V DC Continuous 87.5A @ 24V DC Continuous		
Function	4-position switch (off-1-2-both)		

Dual Battery Master Switch - Weatherproof

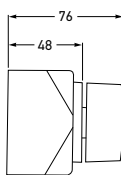
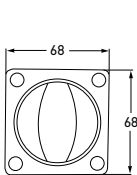
For 6-36V DC battery systems with alternators or generators. Water and vapour resistant.



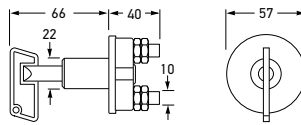
2767	6EB 950 870-001		OFF-1-2-BOTH
Mounting	Surface mount. or 84mm diameter opening		
Maximum Load	500A at 12V DC for 10 seconds 250A at 24V DC for 10 seconds 310A at 12V DC continuous 155A at 24V DC continuous		
Function	4-position switch (off-1-2-both)		
For Panels	Up to 25mm thick.		


Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key.



4640	9SL 998 540-002		OFF-ON
Mounting	Recess or surface mount.		
Maximum Load	12/24V DC	1250A for up to 10 seconds	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs.		
Protection	IP 56		
Spare Part	4641	Spare key	

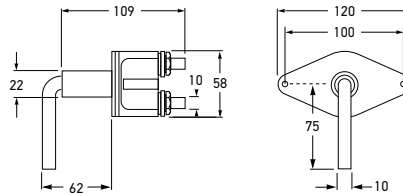



4650	6EK 002 843-057		OFF-ON
Mounting	24mm diameter opening		
Maximum Load	12V DC 24V DC	1000A for up to 10 seconds. 500A for up to 10 seconds.	
Maximum Continuous Load	12/24V - 50A at a maximum ambient temperature of 80°C with 35mm ² lead, connected with ring-type terminals.		
Termination	2 x 10mm studs.		
Protection	IP X4 (Protection against water splashing)		
Spare Part	4652	Spare key	

Switch not designed for Marine applications.

Battery Master Switch

Suitable for cars and medium sized trucks. Complete with removable key. For interrupting circuits (prevents theft and short circuit).



4653	6EK 001 559-002		OFF-ON
Mounting	22mm diameter opening.		
Maximum Load	12V DC 24V DC	5000A for 10 seconds. 2500A for 10 seconds	
Maximum Continuous Load	12/24V DC	100A continuous at a maximum ambient temperature of 60°C with 50mm ² lead connected with ring-type terminals.	
Termination	2 x 10mm studs.		
Protection	IP X4 (Protection against water splashing)		
Spare Part	4654	Spare key	

Switch not designed for Marine applications.

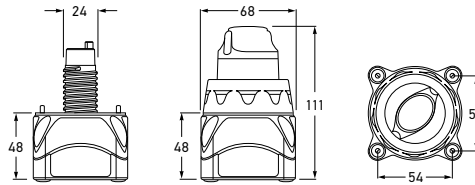
Heavy Duty Battery Master Switch

For trucks, buses and earth moving equipment. Complete with removable key.



Battery Master Switch

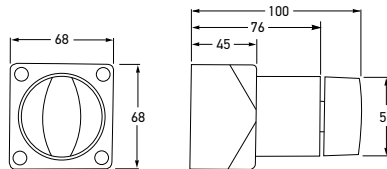
Battery master switch with threaded collar. Suitable for cars and medium sized trucks. Complete with removable key, labelled handle and removable back cover. For interrupting circuits (prevents theft and short circuit).



4722	9SL 980 833-001		OFF-ON
Mounting	Recess or surface mount. 25mm diameter opening.		
Maximum Load	12/24V DC	1250A for up to 10 seconds.	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		

Remote Operated Battery Master Switch

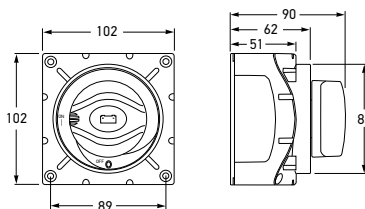
Battery switch with tin-plated copper studs and nuts. Can be operated manually or remotely with a separate switch (not supplied). Suitable for mounting alongside battery reducing cable lengths to starter motor. Complete with removable key and 3 way DTM plug.



4724	6EN 980 835-001		OFF-ON
Mounting	Recess or surface mount. 55mm diameter opening.		
Voltage	12/24V DC		
Power Consumption	2W @ 12V DC when operating, 0.25W static.		
Maximum Load	12/24V DC	1250A for up to 10 seconds.	
Maximum Continuous Load	12/24V DC	275A	
Termination	2 x 10mm studs.		
Cable Length	500mm		

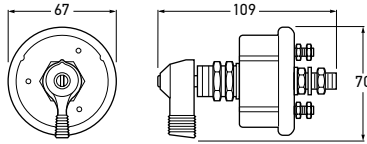
Heavy Duty Battery Master Switch

For commercial use. Features sliding contact for self cleaning.



4720	6EK 998 540-062		OFF-ON
Mounting	Recess or surface mount. 85mm diameter opening.		
Maximum Load	12/24V DC	2500A for up to 10 seconds.	
Maximum Continuous Load	12/24V DC	600A	
Termination	2 x 12mm studs.		
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)		

ACCESSORIES



4642	6EK 905 424-001	
4643	6EK 905 424-011	■ SILVER CONTACTS
Mounting	19mm diameter opening.	
Maximum Load	1000A at 6-36V DC intermittent	
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)	
For Panels	Up to 4.75mm thick.	
Spare Part	4645	Key ①
Accessories	4646	Face Plate ②

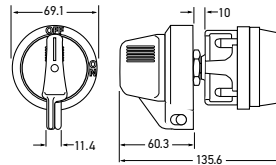
Battery Master Switches

Double-pole, 2-position (off-on) Battery Master Switch with plated steel case designed to disconnect both battery and field circuit. Actuated by chrome-plated die-cast lever. Part No. 4643 features silver laminated contacts.



Battery Master Lockout Switches - 2 Pole

Heavy-duty 2-pole lockable battery lock out switch. The Battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations.

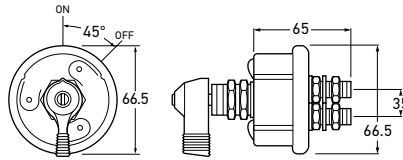


HM7592B	9MK 910 109-001	■ RED HANDLE
HM7592Y	9MK 910 109-011	■ YELLOW HANDLE
Mounting	Sealed design allows switch to be mounted in the best location regardless of environment.	
Operating Temp.	-40°C to +85°C	
Maximum Continuous Load	300A at 12V DC continuous 250A at 24V DC continuous	
Protection	Waterproof and dustproof to IP67.	



**Battery Master Lockout Switch
- 4 Pole**

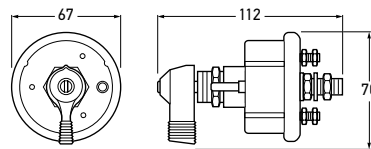
Heavy-duty 4-pole lockable battery lock out switch. The Battery lockout switch provides a reliable power disconnection and safety cut-off that protects the vehicle against tampering, theft and battery drain. It also protects service personnel from electrical hazards during service operations. Isolates of both positive and negative sides from the battery, or isolation of 2 circuits with only one switch.



HM7591S	9MK 910 109-201
Mounting	19mm diameter opening.
Operating Temp.	-40°C to +29°C
Maximum Load	125A at 6-36V DC continuous
Protection	Waterproof and dustproof to IP67.

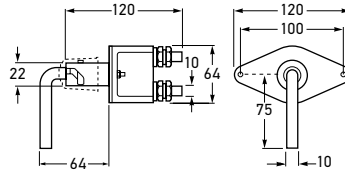
**Battery Master Switch - Silver
Contacts - Weatherproof**

Weatherproof double-pole, 2-position (off-on) Battery Master Switch featuring plated steel case, silver laminated contacts and O-ring seal to protect from dirt and moisture. Also features index pin to align unit and prevent rotation.



4644	6EK 905 424-021	SILVER CONTACTS
Mounting	19mm diameter opening.	
Maximum Load	1000A at 6-36V DC intermittent	
Maximum Continuous Load	125A at 6-36V DC continuous (large studs) 20A continuous (small studs)	
For Panels	Up to 6.75mm thick.	
Spare Part	4645	Key ①
Accessories	4646	Face Plate ②

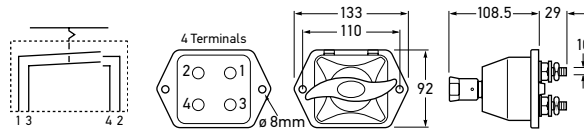




4655	6EK 905 397-001	
Mounting	24mm diameter opening.	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Protection	IP 66	
Spare Parts	4655COV	Strap & PVC Protective Cover ①
	4655KEY	Handle, Chain & Protective Cover ②

Heavy Duty Battery Master Switch

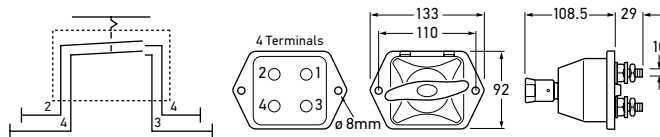
Extremely robust, single-pole (2 post) Battery Master Switch featuring double-cut copper contacts. Supplied complete with removable handle, security chain and PVC protective cover. Suitable for industrial vehicles and agricultural machinery.



4657	6EK 905 249-001	
Mounting	82mm x 77mm opening Mounting hole diameter 8mm	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Termination	2 x 12mm studs.	
Protection	IP 65	

Heavy Duty Battery Master Switch

Extremely robust, double-pole (4 post) Battery Master Switch featuring corrosion-resistant zinc-plated housing and double-cut copper contacts. Suitable for industrial and agricultural vehicles.



2769	6EK 905 250-001	
Mounting	82mm x 77mm opening Mounting hole diameter 8mm	
Maximum Load	2500A at 12-24V DC for 5 seconds	
Maximum Continuous Load	250A at 12-24V DC continuous	
Termination	2 x 12mm studs.	
Protection	IP 65	

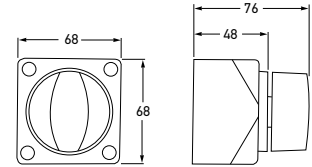
Heavy Duty Battery Master Switch - Weatherproof

Extremely robust, double-pole (4 post) Battery Master Switch with corrosion-resistant zinc-plated housing and double-cut copper contacts. Specifically designed for marine applications featuring additional white surface protection coating for extended durability.



Battery Selector Switch

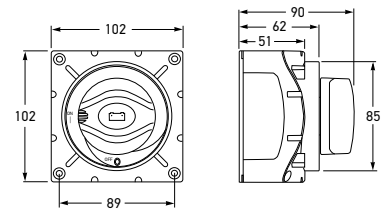
Battery Switch to select either from two power sources or combine together. Will also isolate from the power sources.



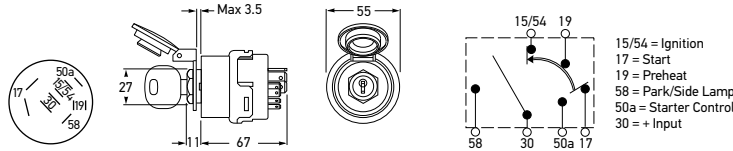
4723	9SL 980 834-001	OFF-B1-BOTH-B2
Mounting	Recess or Surface Mount.	
Maximum Load	12/24V DC	1000A for up to 10 seconds.
Maximum Continuous Load	12/24V DC	200A
Termination	3 x 5/16" studs.	
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)	

Battery Selector Switch

Battery Switch to select either from two power sources or combine together. Will also isolate from the power sources.



4721	6EB 998 540-202	OFF-B1-BOTH-B2
Mounting	Recess or Surface Mount. 85mm diameter opening.	
Maximum Load	12/24V DC	1500A for 10 seconds
Maximum Continuous Load	12/24V DC	350A
Termination	3 x 10mm studs.	
Protection	IP 56 (Protection against solid foreign objects up to 1mm and powerful water jets)	
Switch can be locked using 6mm diameter padlock with 75mm reach.		



4005	6JB 003 959-002	
Mounting	26.5mm diameter opening.	
For Panels	Up to 3.5mm thick.	
Function	5 position switch (park, off, driving, pre-heat, start).	

Diesel Pre-heating Starter Switch

Pre-heating Starter Switch supplied with two keys. Key removes in park and off.



TERMINAL	POSITION	FUNCTION	CURRENT @ 24V
30-58	P	Park Lamps	4A
30-15/54	1	Driving	18A
30-19	2	Preheat	35A
30-50a/17	3	Start	5A/35A

Ignition and Starter Switch

Switch with spring loaded return. Supplied with two keys.

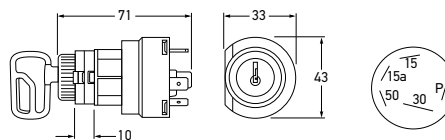


4008	6JB 950 505-001	
Mounting	19mm diameter opening.	
For Panels	Up to 19mm thick.	
Maximum Load	@12V ignition 25A, start 12A, accessory 15A.	
Spare Part	Blank key number Silica BH4.	
Function	Four position switch (accessory, off, ignition, start).	



Heavy Duty Ignition and Starter Switch

Heavy Duty Ignition and Starter Switch, featuring plastic outer construction for maximum protection against damage. Supplied with two keys.

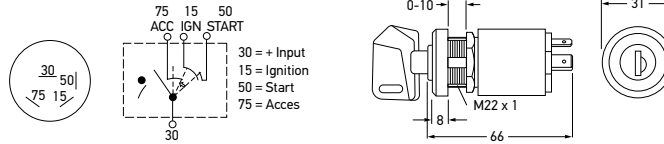


4008HD	6JK 905 339-001	
Mounting	19mm diameter opening.	
For Panels	Up to 10mm thick.	
Maximum Load	@12V park 2A, ignition 20A, start 25A., accessory 30A	
Function	Four position switch (park, off, ignition, start). Key removes in park and off.	



Ignition and Starter Switches

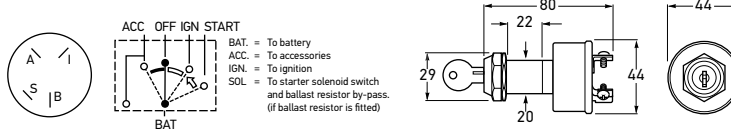
Two keys supplied. Start-lockout mechanism to prevent accidental engagement of starter.



4009	6JK 950 838-001	22MM SHAFT
4010	6JK 905 340-001	18MM SHAFT
Mounting	4009 22.5mm diameter opening 4010 18.5mm diameter opening	
For Panels	Up to 19mm thick.	
Maximum Load	@12V ignition 25A, start 50A, accessory 20A.	
Function	Four position switch (accessory, off, ignition, start).	

Ignition and Starter Switch

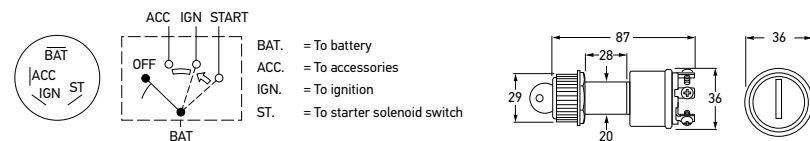
Switch with spring-loaded return. 4 screw terminals and satin finish. Corrosion-resistant brass construction.



2760	6JB 905 308-001	
Mounting	21mm diameter opening.	
For Panels	Up to 30mm thick.	
Maximum Load	@12V ignition 10A, start 5A, accessory 10A.	
Function	Four position switch (accessory, off, ignition and start)	

Ignition and Starter Switch

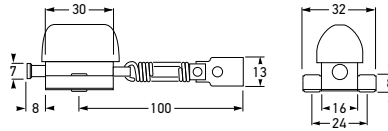
Four position switch with spring loaded return. Four screw terminals.



2766	6JB 905 313-001	
Mounting	21mm diameter opening.	
For Panels	Up to 25mm thick.	
Maximum Load	@12V ignition 10A, start 5A, accessory 10A.	
Function	Four position switch (accessory, off, ignition and start)	

ACCESSORIES

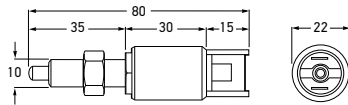
Stop Lamp Switch Off-On



4560	6DD 905 374-001	OFF-ON
Maximum Load	10A @ 12V DC 5A @ 24V DC	



Stop Lamp Switch On-Off

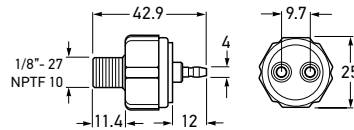


4562	6DF 007 365-001	ON-OFF
Maximum Load	10A @ 12V DC	

Thread M10 x 1.25. Suits most Japanese vehicles.



Stop Lamp Switch Hydraulic

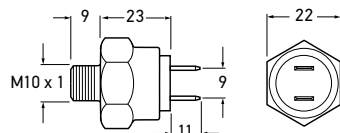


4566	6DL 905 375-011	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 1997725, No. LC6870, No. P7715	
Suits	GMH, Ford, Chrysler, and Dodge	
Actuating Pressure	3.7-8.2 Bar	
Note	Only suitable for use with brake fluid (not silicone based).	

1/8" x 27 NPT Thread.



Stop Lamp Switch Hydraulic



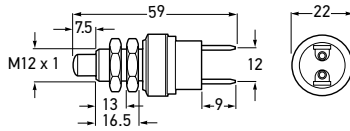
4567	6DL 905 375-021	HYDRAULIC
Maximum Load	9A @ 12V DC 4.5A @ 24V DC	
Replaces	Original No. 113 945 515C	
Suits	Volkswagen to 1970	
Actuating Pressure	3-6 Bar	
Note	Only suitable for use with brake fluid (not silicone based).	

M 10 x 1 Thread.



Stop Lamp Switch Mechanical

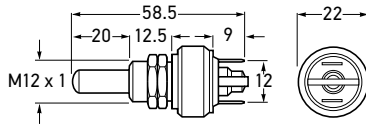
M 12 x 1 Thread, Plunger length 7.5mm



4568	6DL 905 375-031		MECHANICAL
Maximum Load	40A @ 12V for 60 seconds 20A @ 24V for 60 seconds 10.5A @ 12V continuous 5.25A @ 24V continuous		

Stop Lamp Switch Mechanical

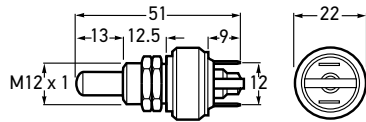
M 12 x 1 Thread, Plunger length 20mm



4569	6EZ 905 376-001		MECHANICAL
Maximum Load	5A @ 12V DC 2.5A @ 24V DC		
Replaces	Part No. 7419748		
To Suit	Ford Capri 1969-73, Escort 1970-81, Jeep C17 and Holden HR.		

Stop Lamp Switch Mechanical

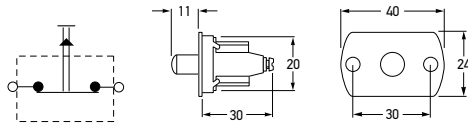
M 12 x 1 Thread.



4570	6EZ 905 376-021		MECHANICAL
Maximum Load	5A @ 12V DC 2.5A @ 24V DC		
Replaces	Original No. 7438915		

Door Contact Switch On-Off

Switch closes circuit if door is opened.

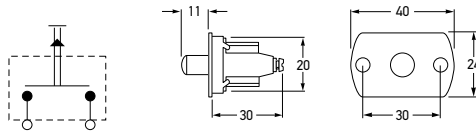


4550	6ZF 003 549-003		ON-OFF
Mounting	21mm diameter opening.		
Maximum Load	2A @ 12V DC 1A @ 24V DC		



Door Contact Switch Off-On

Switch opens circuit if door is opened.
May be used as safety cut-off switch.

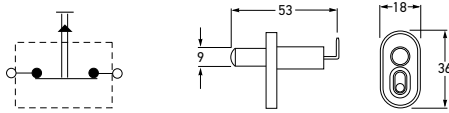


4551	6ZF 003 549-022		OFF-ON
Mounting	21mm diameter opening.		
Maximum Load	2A @ 12V DC 1A @ 24V DC		



Door Contact Switch On-Off

Switch closes circuit if door is opened.
Corrosion proof black plastic. Rubber seal.
Push-on terminal.

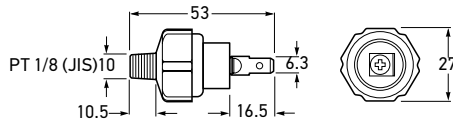


4553	6ZF 905 373-001		ON-OFF
Mounting	12mm diameter opening and screw.		
Maximum Load	3.5A @ 12V DC		
Plunger automatically adjusts to door gap on initial operation.			



Oil Pressure Switch

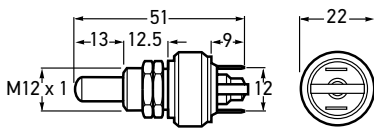
1/8" x 28 BSP Thread



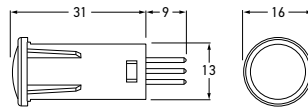
4571	6ZL 905 376-031	
Actuating Pressure	0.14 - 0.48 Bar	

Oil Pressure Switch

1/4" x 18 NPTF Thread



4574	6ZL 905 376-041	
Actuating Pressure	0.14 - 0.48 Bar	



2708	2AA 905 300-001		RED
2709	2AA 905 300-011		GREEN
2710	2AA 905 300-021		BLUE
2711	2AA 905 300-031		AMBER

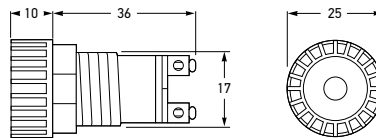
Mounting 12.5mm diameter opening.

Voltage	12V DC
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Suitable for 12V DC only. Globe not replaceable.

Pilot Lamps 12 Volt

Panel push fit Pilot Lamp with non-replaceable globe.



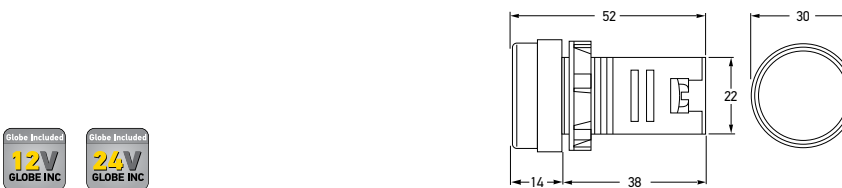
2712	2AA 905 301-001		RED
2713	2AA 905 301-011		GREEN
2714	2AA 905 301-021		BLUE
2715	2AA 905 301-031		AMBER

Mounting 17mm diameter opening.

Globes to Suit	12V DC	H122 (included)
	24V DC	H242

Pilot Lamps 12 Volt

Pilot Lamp utilising bayonet based globe for use under heavy duty conditions.



2716	2AA 910 233-041 – 12V AC/DC		RED
2716-24V	2AA 910 233-101 – 24V AC/DC		
2717	2AA 910 233-031 – 12V AC/DC		GREEN
2717-24V	2AA 910 233-091 – 24V AC/DC		
2718	2AA 910 233-011 – 12V AC/DC		AMBER
2718-24V	2AA 910 233-061 – 24V AC/DC		
2719	2AA 910 233-051 – 12V AC/DC		WHITE
2719-24V	2AA 910 233-111 – 24V AC/DC		
2720	2AA 910 233-021 – 12V AC/DC		BLUE
2720-24V	2AA 910 233-071 – 24V AC/DC		

Mounting 22mm diameter opening.

For Panels	Up to 38mm thick.
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Voltage	12V or 24V AC/DC
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Protection	IP 65 (Protection against dust and water jets) when installed.
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LED Pilot Lamps 12/24V AC/DC

Heavy duty multi-chip LED Pilot Lamp featuring shock-resistant one-piece construction for long service life and polycarbonate lens.



WATER TIGHT SOCKETS

7P/12V WATERTIGHT SOCKET

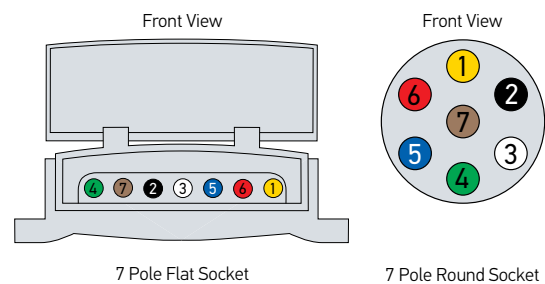
A trailer socket, traditionally, is an open interface between a trailer and a vehicle's electrical wiring system. The current standard of AS4177.5 (Flat Socket) or ISO 1724 (Round Socket) do not provide water protection. In existing sockets, water can enter into the vehicles electronic module through capillary action of the wires and can cause enormous damage.

This new 100% watertight 7 Pin/12V connector system sets the new standard in this segment.

The sophisticated, double contact system with primary and secondary locks, together with the individual wire seals make it impossible for moisture penetration to occur in the vehicle board network.

Even under the most extreme conditions, the system provides 100% water-tightness. The connector system satisfies all requirement of original equipment manufacturers in the automotive industry such as the protection IPX7 (Waterproof up to 0.5m depth) and IPX9K (Protection against water during high pressure, eg. Steam jet cleaning). In addition to the water-tightness our new 7P/12V system has greatly simplified the installation options (Plug & Play).

#	DIN	SIGNAL	COLOUR	WIRE CROSS SECTION	AWG
1	L	Left Turn Signal	Yellow	1.5	15
2	54g	Reverse Lamps	Black	1.5	15
3	31	Ground	White	2.5	13
4	R	Right Turn Signal	Green	1.5	15
5	58R	Electric Brakes	Blue	1.5	15
6	54	Stop Lamps	Red	1.5	15
7	58L	Tail Lamps	Brown	1.5	15

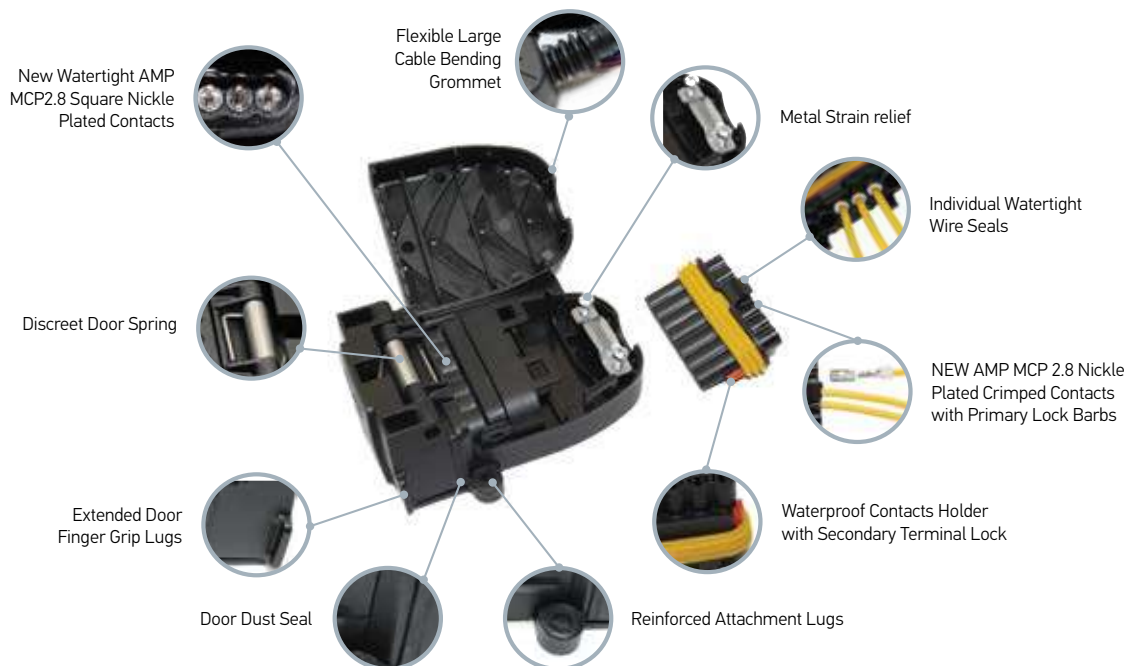


Features & Benefits:

- 100% water barrier from plug side to cable harness side, even when a plug is connected
- 100% water tightness from cable harness side through single wire seals
- New socket design with compatibility for all existing mounting plates
- Wire cross sectional area: 1.0 – 2.5 mm²
- Housing material: Reinforced composite
- Watertight to IPX7 (waterproof up to 0.5m depth) and IPX9K (steam jet resistant)
- Reinforced Mounting Lugs
- Hidden Cover Door Spring
- No Terminal Screws
- Easy Grip Cover Door Lugs for ease of opening
- Protection Cover and Flexible Rubber Grommet
- Made in Europe from Quality Materials
- Secondary Contact Lock (OE standards) ensures secure wire fitment and reduces In-Service failure
- Short Fitment Time - Quick Connect Mechanism
- Strain Relief prevents harness strain

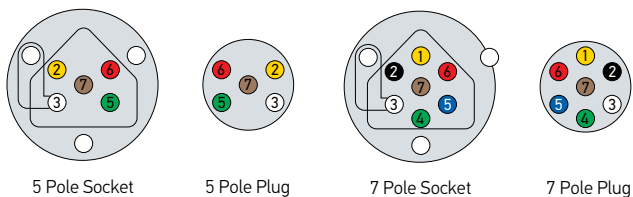
ACCESSORIES

Water Tight 7P/12V Flat Socket (as 4177.5)



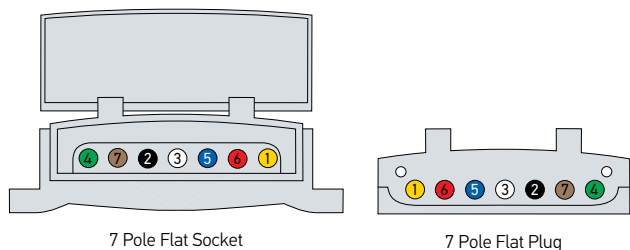
Trailer Connector Wiring Specifications

Cable Entry View (old AS2513)



5 POLE CONNECTOR WIRING SPECIFICATIONS	
Terminal Number	Connect to
2	Left-hand flasher lamps
3	Earth return
5	Right-hand flasher lamps
6	Stop lamps
7	Rear position, number plate and clearance lamps

Front View (old AS41775-2004)



7 POLE CONNECTOR WIRING SPECIFICATIONS	
Terminal Number	Connect to
1	Left-hand flasher lamps
2	Reversing lamps
3	Earth return
4	Right-hand flasher lamps
5	Service brakes (or Auxiliary)
6	Stop lamps
7	Rear position, number plate and clearance lamps

Note If separate earth cable is not used on vehicle, earthing strip supplied should be fitted into Terminal No. 3 of socket and under mounting screw as shown. * Where service brakes are not fitted, Terminal No. 5 may be used for auxiliaries.

ACCESSORIES

Trailer Socket Bracket

Zinc plated steel. To suit P/Ns 4901 and 4912.

8022

8HG 905 430-001



7 Pole Metal Socket



Rubber Boot 9GD 735 641-001

4901	8JB 001 941-004 - Metal Housing	
4901BULK	8JB 001 941-005 - Metal Housing	PACK OF 25
Description	Metal housing with securing cap locks plug in position.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	
Accessory	9GD 735 641-001	Rubber boot

7 Pole Plastic Plug



4902	8JA 905 386-001 - Plastic Housing	
Description	Black Plastic Plug with strain relief.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Plastic Plug



4909	8JB 001 939-003 - Plastic Housing	
Description	Simply stores in boot until required. Requires no permanent bumper mounting.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Metal Plug



4911	8JA 001 918-003 - Metal Housing	
4911BULK	8JA 001 918-004 - Metal Housing	PACK OF 25
Description	Metal housing.	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	

7 Pole Plastic Socket



Rubber Boot 9GD 735 641-001

4912	8JB 001 943-091 - Plastic Housing	
Maximum Load	20A @ 12V (total). 10A @ 24V (total).	
Accessory	9GD 735 641-001	Rubber boot

Round IP Rated Socket

Comes with Door Seal & Seal for Multi Core cables. *Watertight (refer to page 367 for details).



8JB 910 032-041 – Watertight (refer page 367)	
IP Rating	IPX7 and IPX9K
Crimp Terminals	AMP Round connector (929975-1)
Wire Size	1.0 – 2.5mm ²
Standard	ISO 1724
Accessories	8PE 014 032-011 Crimping tool (refer page 407 for details)

4920	8JB 910 032-011	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Base Socket

Impact-resistant, UV-stabilised plastic spring loaded lid. Nickel plated contacts for excellent electrical performance. Mates with all standard 7 pole connectors.



8JB 910 032-021 – Watertight (refer page 367)		
IP Rating	IPX7 and IPX9K	
Crimp Terminals	AMP MCP 2.8 (1-968857-1)	
Wire Size	1.5 - 2.5mm ²	
Standard	Meets AS 4177.5	
Accessory	8PE 014 032-001	Crimping tool (refer page 407 for details)

Flat IP Rated Socket

Comes with Door Seal & Strain Relief.
*Watertight (refer to page 367 for details).



4921	8JA 910 032-001	
4921-BULK	8JA 910 032-002	PACK OF 50
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Flat Plug

Impact-resistant, UV-stabilised plastic. Nickel plated contacts for excellent electrical performance. Mates with all standard 7 and 12 pole connectors.



4930	8JB 905 391-011	
Mounting	Flush Mount	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Socket - Metal, Small

Diecast in robust zinc alloy. High-conductivity brass contacts for superior current flow.



7 Pole Plug - Metal, Small

Diecast in robust zinc alloy. High-conductivity brass contacts for superior current flow.



4931	8JA 905 391-021	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Socket - Plastic, Small

Unique twist lock/electrical connection block. Compact design. Made of impact and UV-resistant thermoplastic. High-conductivity brass contacts for superior current flow.



4932	8JB 905 391-031	
Mounting	Flush Mount	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

7 Pole Plug - Plastic, Small

Made of impact and UV-resistant thermoplastic. High-conductivity brass contacts for superior current flow.

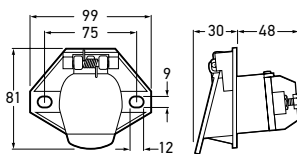


4933	8JA 905 391-041	
Maximum Load	20A @ 12V (total) 10A @ 24V (total)	

2 POLE PLUGS AND SOCKETS

2 Pole Socket - 200A

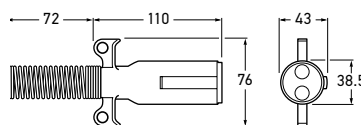
2 Pole Socket designed for applications with high Current Draw requirements. Easy to install and operates independently of lighting circuit.



4941	8JB 905 394-011	SOCKET
Maximum Load	200A @ 12V	

2 Pole Plug - 200A

2 Pole Plug designed for applications with high Current Draw requirements. Easy to install and operates independently of lighting circuit.

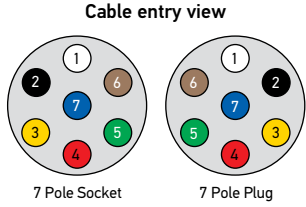


4940	8JA 905 394-001		PLUG
Maximum Load	200A @ 12V		

DIN ISO Connector Wiring Specifications

Diecast in robust zinc alloy. High-conductivity brass contacts for superior current flow. AS4735 - 2003 (SAE + ISO)

5 POLE CONNECTOR WIRING SPECIFICATIONS	
Terminal Number	Connect to:
1 (31)	Common Earth Return
2 (58L)	Left-hand Rear Position/Marker & Clearance Lamps
3 (L)	Left-Hand Direction Indicators
4 (54)	Stop Lamps
5 (R)	Right-hand Direction Indicators
6 (58R)	Right-hand Rear Position/Marker, Clearance and Licence Plate Lamps
7 (Centre)	Reversing Lamps



4907	8JB 003 833-002	SOCKET
4908	8JA 003 831-002	PLUG
Maximum Load	15A @ 24V with 1.5mm ² cable (total) 20A @ 24V with 2.5mm ² cable (total)	7 x 40A @ +12V 7 x 20A @ +24V
Suitability	4907 suits 4908, 4934 & 4934NY 4908 suits 4907, 4935 & 4935NY	



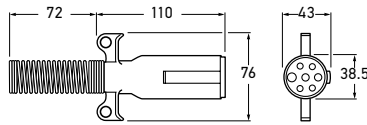
7 Pole Heavy Duty Plug and Socket

Plug and Socket made from metal, with screw terminals (ISO 1185). Manufactured in accordance with AS4735-2003 (ISO1185 & SAE J560B)



7 Pole Heavy Duty SAE Plug - Metal

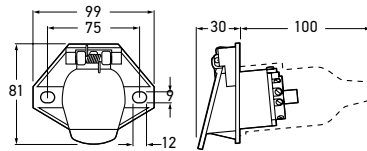
Heavy-duty 7 Pole Metal Plug manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. Features die-cast zinc housing, high-conductivity 100% brass floating pins held between sonic-welded inserts and spring cable guard for additional support and protection. Larger finger grips set back from the latched socket lid allow for safe and trouble-free disconnection.



4934	8JA 905 392-001	PLUG
Maximum Load	70A @ 12V	
Suits	Part No's 4907, 4935 and 4935NY	

7 Pole SAE Socket - Metal

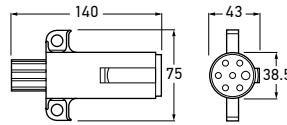
Heavy-duty 7 Pole Metal Socket die-cast in robust zinc and manufactured in accordance with AS 4375-2003 (ISO1185 & SAE J560B) standards. Features include full opening lid for ease of plug insertion and extended front barrel housing for added plug support. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Includes protective rubber boot, Part No. 4936.



4935	8JB 905 392-021	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part Nos 4934 and 4934NY	
Spare Part	4936 Protective Rubber Boot ¹	



7 Pole SAE Plug - Nylon

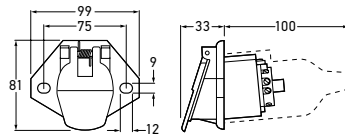


4934NY	8JA 905 392-011	PLUG
Maximum Load	70A @ 12V	
Suits	Part No's 4907, 4935 and 4935NY	

Heavy-duty 7 Pole Plug manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to degreasers, solvents and contact cleaners. Other features include high-conductivity 100% brass pins, exclusive cable guard and 360 degree compression clamp creating a rear moisture seal, whilst also preventing accidental cable pull out.



7 Pole SAE Socket - Nylon



4935NY	8JB 905 392-031	SOCKET
Mounting	58.9mm diameter opening	
Maximum Load	70A @ 12V	
Suits	Part No's 4934NY and 4934	
Spare Part	4936 Protective Rubber Boot ①	

Heavy-duty 7 Pole Socket made from composite glass-filled nylon and manufactured in accordance with AS 4735-2003 (ISO1185 & SAE J560B) standards. The ultra-durable nylon housing is of lightweight and resistant to petrochemicals, solvents and contact cleaners. Raised internal ribs allow for drainage of moisture to prevent corrosion and short circuits. Other features include full opening lid and extended front barrel housing for additional support and protection. Supplied complete with protective rubber boot, Part No. 4936.



Suzi Coil with 7P ISO 1724 Plugs

- Cable outlet: PG Gland
- Outer Coil Diameter: 50mm



8KA 227 440-101

Housing	Silver coloured break-proof metal
Maximum working length	4.6m
Cable outlet	PG Gland
Wire cross section area	6 x 1.5 mm ² + 1 x 2.5 mm ²
Tail ends	Tail 1: 220 mm, Tail 2: 220 mm

Suzi Coil with 7P ISO 1724 Plugs Long tail

- Cable outlet: PG Gland
- Outer Coil Diameter: 50mm



8KA 227 440-111 - Long Tail

Housing	Silver coloured break-proof metal
Maximum working length	5.6m
Cable outlet	PG Gland
Wire cross section area	6 x 1.5 mm ² + 1 x 2.5 mm ²
Tail ends	Tail 1: 300 mm, Tail 2: 1300 mm

Straight Cable with 7P ISO 1724 Plugs

- Ideal for dog trailer



8KA 227 440-131

Housing	Break-proof silver coloured metal Housing plug with PVC cable
Cable length	3m Maximum
Cable outlet	PG Gland
Wire cross section area	7 x 1.5 mm ²

8KA 227 440-141

Housing	ISO plug: Silver coloured break-proof metal SAE plug: Reinforced composite plastic
Pins	7
Maximum working length	4.6m
Wire cross section area	6 x 1.5 mm ² + 1 x 2.5 mm ²
Tail ends	Tail 1: 300 mm, Tail 2: 300 mm

Suzi Coil with 7P ISO 1724 and SAEJ560

- Outer Coil Diameter: 50mm
- Maximum working length 4.6m



8KA 227 440-151 - Long Tail

Housing	ISO plug: Silver coloured break-proof metal SAE plug: Reinforced composite plastic
Pins	7
Maximum working length	5.6m
Wire cross section area	6 x 1.5 mm ² + 1 x 2.5 mm ²
Tail ends	Tail 1: 300 mm, Tail 2: 1300 mm

Suzi Coil with 7P ISO 1724 and SAEJ560

- Outer Coil Diameter: 50mm
- Maximum working length 5.6m



7P Trailer Adaptor 13P to 7P

Mini Short Adaptor from vehicle 13P /12V to trailer 7P/12V.

**8JA 227 440-121**

Current	16A
Housing	Reinforced Plastic
Contact surface	Nickel

Suzi Coil with Heavy Duty 7P SAEJ560 Plugs

These 7 pin spiral cable-plug assemblies are designed to provide a superior electrical connection between the Prime mover and trailer. The uni-molded connector bodies are extremely robust providing best in class performance and are completely unique to the market.

- High performance crimped contacts
- Integrated strain relief provides permanent kink protection
- Resistant to diesel fuel, engine coolant, engine oil, gear oil, water, salt, dirt, UV radiant and impact resistance

**8KA 905 392-041**

Housing	Uni-molded connector body seals out water and corrosive chemicals
Cable outlet	Molded, bending protection
Wire cross section area	4 x 3 mm ² + 2 x 5 mm ² + 1 x 8 mm ²
Max. working length	4m
Max. extension length	4.5m

7P ABS/EBS CONNECTORS ISO 7638

The ABS/EBS/ADR connectors are used on nearly every commercial vehicle with ABS/EBS System. The connectors show safety features like automatic ejection of the plug, in case of faulty wiring. To avoid confusion between 24V and 12V connectors, the systems feature different codings.

All ABS/EBS sockets and plugs are ADR (dangerous goods) compliant.

Features:

- System meets the high requirements of modern trailer connectors according to ISO 4091
- Prevention of faulty wiring due to ejector pin
- Easy and efficient assembly
- Systems specially designed for the application
- Screw contacts for in field repair
- Simplified cabling through colour markings
- Ingress protection to IP54
- Easy and efficient assembly via screw terminal for connectable conductor cross section 1.0 – 6.0 mm².

This connector is intended to be used for ABS and EBS on heavy duty trailers. 12V ISO 7638-2 connector is identified with a key between pin 3 and 4, while 24V ISO 7638-1 connector is identified with a key at pin 5.

Multivolt Connector:

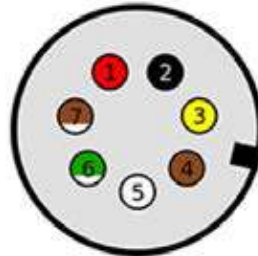
Only to be used on Multivolt ABS/EBS systems. It is the responsibility of the user to ensure correct voltage compatibility and latch alignment.

System created for 12V and 24V. We assume no liability for damage resulting from improper application.

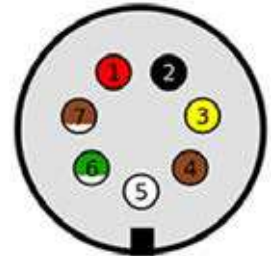
Multivolt suzi coil comes with warning flags as below:



#	DIN	SIGNAL	COLOUR	WIRE CROSS SECTION	AWG
1	30	(+) 12V or 24V permanent for control valves	Red	4	11
2	15	(+) 12V or 24V via ignition lock for electronics	Black	1.5	15
3	31	Ground for electronics (Pin 2)	Yellow	1.5	15
4	31	Ground for control valves (Pin 1)	Brown	4	11
5		ABS Fault Indication	White	1.5	15
6		CAN H, for EBS and ABS	Green/White	1.5	15
7		CAN L, for EBS and ABS	Brown/White	1.5	15



12V Plug
Cable entry view
ISO 7638-2



24V Plug
Cable entry view
ISO 7638-1

7P/12V ABS/EBS Socket with screw contacts

- With cover, and rubber seals
- Made of reinforce composite
- High strength cable gland of the cable outlet



8JB 227 440-011

Operating voltage	12V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO7638-2

7P/12V ABS/EBS Plug with screw contacts

- With rubber seals
- Made of reinforce composite
- Mechanical strain relief
- Safe latching in place



8JA 227 440-031

Operating voltage	12V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO7638-2

Suzi Coil with 7P/12V ABS/EBS Plug

- Max 4.5m cable length with plug at both ends
- Outer cable dia: 50mm
- Bending protection grommet



8KA 227 440-051

Operating voltage	12V DC
Pins	7
Max. Working Length	4m
Max. Extension Length	4.5m
Standard	ISO7638-2

ACCESSORIES

8JB 227 440-021

Operating voltage	24V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO 7638-1

7P/24V ABS/EBS Socket with screw contacts

- With cover, and rubber seals
- Made of reinforce composite
- High strength cable gland of the cable outlet
- Colour coding for easy installation



8JA 227440-041

Operating voltage	24V DC
Pins	7
Housing	Reinforced Composite
For Cable	9 - 16mm
Contact Termination	Screw Contact
Standard	ISO 7638-1

7P/24V ABS/EBS Plug with screw contacts

- With rubber seals
- Made of reinforce composite
- Mechanical strain relief
- Safe latching in place
- Colour coding for easy installation



8KA 227440-061

Operating voltage	24V DC
Pins	7
Max. Working Length	4m
Max. Extension Length	4.5m
Standard	ISO 7638-1

Suzi Coil with 7P/24V ABS/EBS Plug

- Max 4.5m cable length with plug at both ends
- Outer cable dia: 50mm
- Bending protection grommet



Suzi Coil without Plug

- Working length: 4.5 meters
- Temperature range: -40 °C to 100 °C
- Outer coil diameter: 50mm



8JA 227 440-071

Wire cross section area	5 x 1.5mm ² 2 x 4 mm ²
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Suzi Coil with 7P / Multivolt ABS/EBS Plug

- Temperature range: -40°C to 100°C
- Outer Coil Diameter: 50mm



8KA 227 440-081

Operating voltage	Multivolt*
Pins	7
Maximum working length	8KA 227 440-081 4.5m
Wire cross section area	5 x 1.5 mm ² + 2 x 4.0 mm ²
Tail ends	8KA 227 440-081 Tail 1: 300 mm, Tail 2: 300 mm
*Caution	Operator must confirm voltage compatibility of prime mover and trailer.

Suzi Coil with 7P / Multivolt ABS/EBS Plug Long Tail

- Temperature range: -40°C to 100°C
- Outer Coil Diameter: 50mm



8KA 227 440-181 - Long tail

Operating voltage	Multivolt*
Pins	7
Maximum working length	8KA 227 440-181 5.2m
Wire cross section area	5 x 1.5 mm ² + 2 x 4.0 mm ²
Tail ends	8KA 227 440-181 Tail 1: 300 mm, Tail 2: 1000 mm
*Caution	Operator must confirm voltage compatibility of prime mover and trailer.

ACCESSORIES



8JA 227 440-091	
Operating voltage	Multivolt*
Pins	7
Housing	Reinforced Composite
For Cable	11 mm to 18 mm
Contact Termination	Screw Contact
*Caution	Operator must confirm voltage compatibility of prime mover and trailer.

7P / Multivolt ABS/EBS Plug

- With cover and rubber seals
- Made of reinforce composite
- High strength cable gland of the cable outlet



8HG 227 440-001	
Housing	Reinforced Composite
Suitable For	7P ABS/EBS Plugs 13P & 15P Plugs

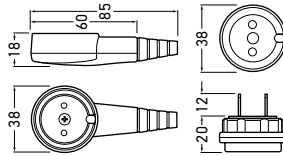
Park Socket

Used when Plug is not connected to actual socket, to prevent the exposure to environment.



Magcode® Power Outlet Systems

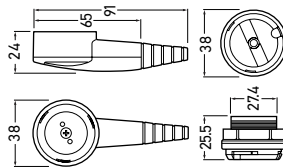
System with magnetically coded flat contacts. Port (outlet) and clip (connector) feature powerful magnets with integral switching function ensuring stable connection and safe power supply. Easy to install, 100% short circuit proof. Suits retro-fitting.



HMPS12VKIT	8KW 910 169-001	☑	POWER SYSTEM - 12 V DC
HMPS24VKIT	8KW 910 169-351	☑	POWER SYSTEM - 24V DC
HMPS12VPT	8KW 910 170-021	☑	POWER PORT - 12 V DC
HMPS24VPT	8KW 910 169-341	☑	POWER PORT - 24 V DC
HMPS12VCP	8KW 910 168-001	☑	POWER CLIP - 12 V DC
HMPS24VCP	8KW 910 168-241	☑	POWER CLIP - 24 V DC
Mounting	28mm dia. (M28) opening		
Maximum Load	25A @ +20°C	25A @ +70°C	20A @ +85°C
Rated Voltage	12V DC	24V DC	
Locking Mechanism	Magnetic Connection		
Protection	Port (front side installed) IP6K9K Port (connection side) IP5K0	Clip (not connected) IP40 Clip (on port) IP42	

MagCode® Pro Power Outlet Systems

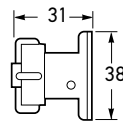
Advanced system for higher power circuits featuring additional mechanical twist lock for greater security (higher separation forces) and reliable prevention from arcing.



HMPSPRO12VKIT	8KW 910 169-011	☑	POWER SYSTEM PLUS - 12 V DC
HMPSPRO24VKIT	8KW 910 169-331	☑	POWER SYSTEM PLUS - 24V DC
HMPSPRO12VPT	8KW 910 170-011	☑	POWER PORT PLUS - 12 V DC
HMPSPRO24VPT	8KW 910 170-241	☑	POWER PORT PLUS - 24 V DC
HMPSPRO12VCP	8KW 910 168-011	☑	POWER CLIP PLUS - 12 V DC
HMPSPRO24VCP	8KW 910 168-251	☑	POWER CLIP PLUS - 24 V DC
Mounting	28mm dia. (M28) opening		
Maximum Load	26A @ +20°C	25A @ +70°C	20A @ +85°C
Rated Voltage	12V DC	24V DC	
Locking Mechanism	Magnetic Connection plus mechanical twist lock		
Protection	Port (front side installed) IP6K9K Port (connection side) IP5K0	Clip (not connected) IP40 Clip (on port) IP42	

2 Pole Socket

Chrome-plated 2-pin polarised. All-brass connection.

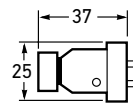


2741	8JB 950 987-001	SOCKET
Maximum Load	22A @ 12V	
Mounting	Surface Mount (3x3mm holes).	



2 Pole Plug

Chrome-plated 2-pin polarised. All-brass construction. Waterproof gland cable entry.

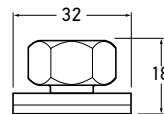


2742	8JA 950 988-001	SOCKET
Maximum Load	22A @ 12V	



Grommet - Surface Mount - 8mm

Chrome-plated Grommet ensures waterproof cable entry. All-brass construction.

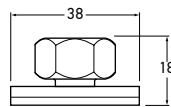


2746	9NM 004 208-002	GROMMET
Cable Dimensions	Up to 8mm diameter.	



Grommet - Surface Mount - 12mm

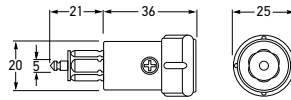
Chrome-plated Grommet ensures waterproof cable entry. All-brass construction.



2747	9NM 004 209-002	GROMMET
Cable Dimensions	Up to 12mm diameter.	

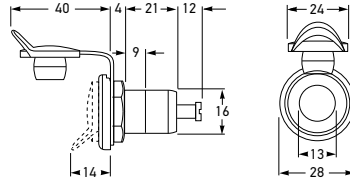


2 Pole Plug



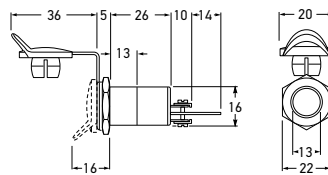
4914	8JA 002 262-021	PLUG
Maximum Load	16A @ 12V 8A @ 24V	
Sockets to Suit	P/Ns 4915, 4916, 4917 and 4918.	

2 Pole Socket with Cover



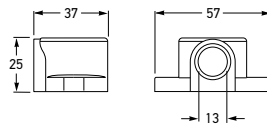
4915	8JB 001 946-023	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Socket with Cover - Insulated Earth



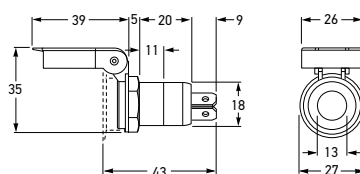
4916	8JB 004 777-013	SOCKET
Mounting	19mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Surface Mount Socket



4917	8JB 004 123-005	SOCKET
Mounting	Surface Mount.	
Maximum Load	16A @ 12V 8A @ 24V	

2 Pole Socket with Metal Earth Tab and Cover

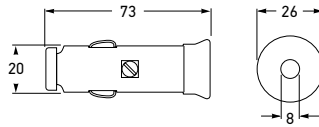


4918	8JB 905 388-001	SOCKET
Mounting	22mm diameter opening.	
Maximum Load	16A @ 12V 8A @ 24V	

ACCESSORIES

2 Pole Power Plug

Suitable for standard cigarette sockets.

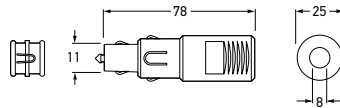


4950	8JA 905 395-001	PLUG
Maximum Load	8A @ 12V 4A @ 24V	
Socket to Suit	4942 & 4943	



2 Pole Fused Power/DIN Plug

Combination Lighter/DIN 2 Pole Plug with in-built 8A ceramic type fuse suitable for both cigarette lighter and DIN ISO 4165 sockets (standard 2 pole sockets).

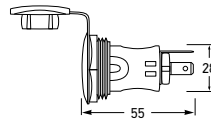


4952	8JA 007 589-003	PLUG
Maximum Load	8A @ 12V	
Sockets to Suit	P/Ns 4913, 4915, 4916, 4917, 4918, 4939, 4942 and 4943.	



2 Pole Power Socket

2 Pole lighter size Power Socket with protective cover for connection of a variety of electrical accessories.

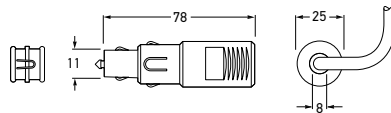


4943	8JB 008 023-001	SOCKET
Maximum Load	15A @ 12V	
Plugs to Suit	P/Ns 4950, 4951, 4952 & 4939.	



2 Pole Power Socket - Twin DIN Output

Twin Power Socket featuring two DIN 1465 output sockets for connection of accessories. Plugs into standard vehicle cigarette lighter sockets. Primary lighter plug connection features a removable extension piece allowing the unit to also plug into DIN 2 pole sockets if required.

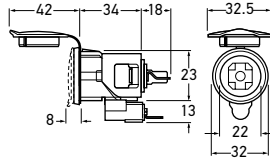


4939	8JB 008 032-001	SOCKET
Maximum Load	10A	



2 Pole Power Socket - Illuminated - 12V

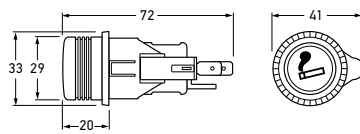
2-pole cigarette-lighter-size Power Socket with protective cover and illuminated collar for connection of a variety of electrical accessories.



4942	8JB 008 023-011		SOCKET
Voltage	12V Globe included		
Maximum Load	15A @ 12V		
Globes to Suit	12V (W121.2) 24V (W241.2)		
Sockets to Suit	P/Ns 4950, 4951, 4952 & 4939.		

Cigarette Lighter - Illuminated

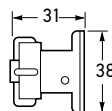
Illuminated Cigarette Lighter with inbuilt globe. Ready to light in 10 seconds.



4937	8EZ 008 021-001		12 VOLTS
4938	8EZ 008 021-011		24 VOLTS
Voltage	12V 24V		
Globes to Suit	12V (W121.2) 24V (W241.2)		

4 Pole SOCKET

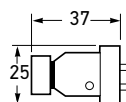
Chrome-plated 4-pin polarised. All-brass construction.



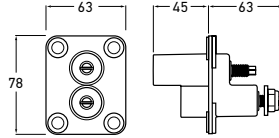
2744	8JB 950 989-001		SOCKET
Mounting	Surface Mount (3 x 3mm holes)		
Maximum Load	22A @ 12V		

4 Pole Plug

Chrome-plated 4-pin polarised. All-brass construction. Waterproof gland cable entry.



2745	8JA 950 990-001		PLUG
Maximum Load	22A @ 12V		



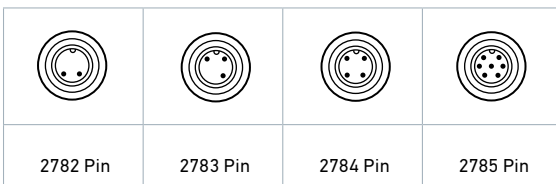
HM7546J	8JB 177 305-001	JUMP START TERMINAL
HM7546KIT	8HG 177 305-031	JUMP START TERMINAL KIT
HM7546P	8JA 177 305-101	JUMP START PLUG

Spare Parts HM7546B Terminal Bracket ①
 HM7546C Terminal Cap ②



HM7546P

2782	8JA 006 801-802	2 POLE PLUG & SOCKET
2783	8JA 006 803-802	3 POLE PLUG & SOCKET
2784	8JA 006 805-802	4 POLE PLUG & SOCKET
2785	8JA 006 807-802	7 POLE PLUG & SOCKET
Mounting	Suitable for surface mounting with mounting base, Part No. 2786	
Maximum Load	2, 3 and 4 pole – 16A at 12V (Suitable for up to 48V) 7 pole – 10A to 12V (Suitable for up to 48V)	
Cable Dimensions	Cross section up to 2.5m ² (5mm insulation)	
Protection	IP67	



Weatherproof Connectors

Plastic construction with screw-type connection and rubber O-ring seal for waterproof connection. Strain relief for plug cable and a protective cover to protect socket when not in use.



Mounting Base

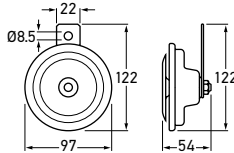
Surface Mounting Base to suit Part Nos 2782-2785. Eliminates need to recess the socket.



2786	8XT 006 798-002	
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Low Tone Disc Horn

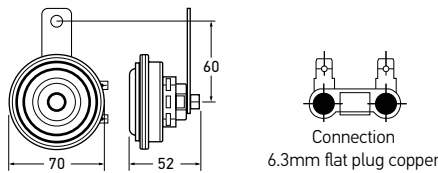
Single bolt mount. 92mm diameter.



6001	3AL 002 952-011 – 400Hz	12 VOLT DC
6002	3BA 002 768-381 – 335Hz	24 VOLT DC
Power Consumption	72W	6A - 12V DC, 3A - 24V DC
Frequency	6001 - 400Hz 6002 - 335Hz	
Sound Level	115dB @ 2.0m	

Super Tone S70 Horn

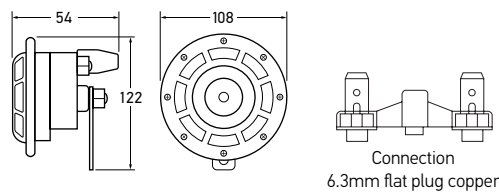
The HELLA Super Tone S70 disc horn provides outstanding size/performance ratio with a long-range sound in a compact space-saving body.



6029	3AL 922 196-011
Rated voltage	12V DC
Power Consumption	30 W
Frequency	420 Hz (high tone)
Acoustic pressure level at 2m	112 dB @ 2 metres
Approval	ECE R28
Bracket	M8 mounting screw

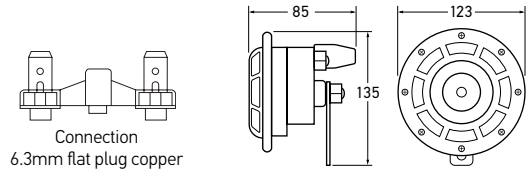
Sharp Tone M26S Horn Set

The HELLA Sharp Tone disc horn has a focused and high-penetrating power tone for drivers who want to be heard. Robust yellow protective grille and high corrosion protection make the Sharp Tone Horn ideal for tough off-road use. Unique design provides a dramatic look under your front grille.



6028	3BB 922 000-731
Rated voltage	12V DC
Power Consumption	2 x 42 W
Frequency	415 Hz (high tone) / 350 Hz (low tone)
Acoustic pressure level at 2m	115 dB @ 2 metres
Approval	ECE R28
Bracket	M8 mounting screw
Kit Includes	High-Tone Unit Low-Tone Unit Relay Mounting Brackets Step-by-Step Mounting Instructions

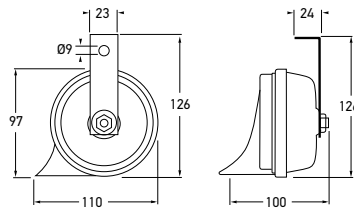
ACCESSORIES



6036	3AG 003 399-801		
Rated voltage	12V DC		
Power Consumption	2 x 66 W		
Frequency	300 Hz (low tone) / 500 Hz (high tone)		
Acoustic pressure level at 2m	118 dB @ 2 metres		
Approval	ECE R28		
Bracket	M8 mounting screw		
Kit Includes	High-Tone Unit Mounting Brackets	Low-Tone Unit Step-by-Step Mounting Instructions	Relay

Super Tone B133 Horn Set

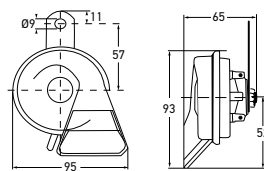
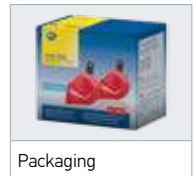
The HELLA Super Tone disc horn has a focused and high-penetrating power tone for drivers who want to be heard. Robust housing and high corrosion protection make the Super Tone Horn ideal for tough off-road use. Unique design provides a dramatic look under your front grille.



6004	3FH 007 424-804	12 VOLT DC
Power Consumption	72W x 2 6A x 2	
Voltage	12V DC	
Frequency	High Tone 500Hz	
	Low Tone 400Hz	
Sound Level	Combined 110dB @ 2.0m	

Twin Tone Scroll Horn - Set of 2

Includes 12 volt relay.



6005	3FH 007 728-835	12 VOLT DC
Power Consumption	72W x 2 6A x 2	
Voltage	12V DC	
Frequency	High Tone 500Hz	
	Low Tone 400Hz	
Sound Level	Combined 110dB @ 2.0m	

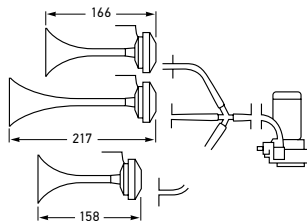
Twin Tone Scroll Horn - Set of 2

Galvanised metal housing and plastic horn. Safe from corrosion.



Air Horn Kit - Triple Trumpet

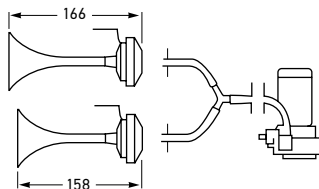
Polished stainless steel triple electric horns including support brackets.



6007	3PD 003 001-623	12 VOLT DC
Mounting	Installation accessories included.	
Current Draw	20A @ 12V DC	
Power Consumption	240W	
Sound Level	118dB (at 2.0 metres)	
Frequency	780 / 820 / 880Hz	
Operating Pressure	110kPA (16psi)	

Dual Trumpet Air Horn Kit

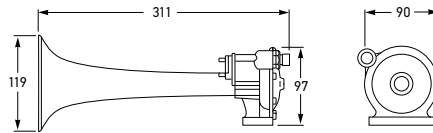
Installation accessories included.



6014	3PB 003 001-602	12 VOLT DC
6027	3PB 003 001-612	24 VOLT DC
Mounting	Installation accessories included.	
Current Draw	20A @ 12V DC 10A @ 24V DC	
Power Consumption	240W	
Sound Level	118dB	
Frequency	780/840Hz	
Operating Pressure	110Kpa (16psi)	



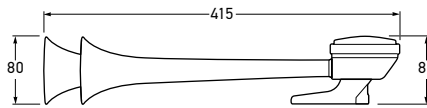
Blister packaging



6025	3PA 004 206-041	12 VOLT DC
6026	3PA 004 206-051	24 VOLT DC
Power Consumption	36W @ 12V DC, 48W @ 24V DC 3A @ 12V DC 2A @ 24V DC	
Sound Level	118dB (at 2.0m)	
Frequency	400Hz	
Operating Pressure	620-860Pa (90 - 125psi)	
Air Tube: 10mm internal diameter.		

Compressed Air Operated Horn

Ideal for trucks and buses. Grey shock-proof and corrosion resistant trumpet. This horn is designed to operate directly from the truck's air supply via the existing horn-button or separate switch.



6032	3PB 005 411-002	
Air Tube	6mm dia (4mm dia. internal)	
Sound Level	118dB (at 2.0 metres)	
Frequency	300 / 320Hz	
Operating Pressure	4-8.5 bar	
Accessories	6033 Pull-operated hand valve ① 6035 Electro valve - 24V DC, 20W (activated via horn push-button) ②	

Highway Compressed Air Operated Twin Horn

Compressed-Air-Operated Twin Horn featuring rust-proof, chrome-plated housing with black base and two trumpets. Designed to operate off commercial vehicle air brake systems. The horn unit is supplied with brass fittings, mounting gear, connecting air tube, mounting gasket and detailed instructions.

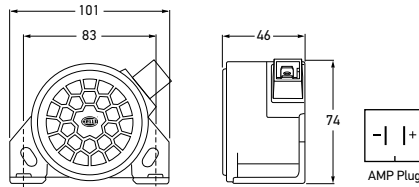


① P/N 6033

② P/N 6035

Heavy Duty Reversing Alarm

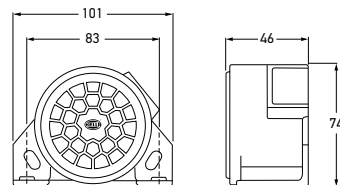
Heavy Duty Reversing Alarm with integral AMP connection and fixed sound pressure levels between 90 and 107dB @ 1.2 metres. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.



6008	3SL 009 148-001	90dB
6009	3SL 009 148-011	97dB
6010	3SL 009 148-021	107dB
6011	3SL 009 148-061	97dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC (P/N 6011 - 12-48V DC)	
Current Draw	P/N 6008	0.1A - 90db
	P/N 6009	0.2A - 97dB
	P/N 6010	0.3A - 107dB
	P/N 6011	0.2A - 97dB
Frequency	60 signals per minute (± 20%).	
Sound Level	P/N 6008	90 ± @ 1.2m
	P/N 6009	97 ± @ 1.2m
	P/N 6010	107 ± @ 1.2m
	P/N 6011	97 ± @ 1.2m
Temperature	Operating range -40°C to 85°C.	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Parts	9.6008.05	Rubber boot for AMP connection ①
	9.6008.06	Wiring loom for AMP connection (2metres) ②
	6041	Activating Switch ③ (see page 395)
Compliance	SAE J994	

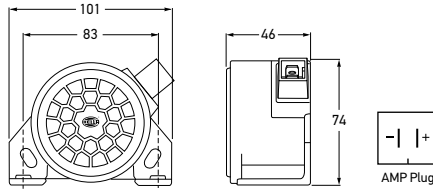
Multivolt Reversing Alarm and Signal Horn

Heavy Duty Reversing Alarm with integrated, dual-tone Signal Horn. Reverse polarity and transient voltage spike protection.



6012	3SL 009 148-071	102dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC	
Current Draw	0.3A	
Frequency	Back-up alarm	100 - 1500Hz
	High Tone	1000 - 1500Hz
	Low Tone	80Hz (+/- 37%)
Sound Level	102 +/- 4dB at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Part	6041	Activating Switch ① (see page 395)
Compliance	SAE J994 Type F	

ACCESSORIES



6013	3SL 009 148-101	82-102dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC	
Current Draw	0.4A	
Frequency	60 signals per minute (± 20%).	
Sound Level	82 - 102 ± 4dB @ 1.2m	
Temperature	Operating range -40°C to 85°C.	
Protection	IP 66 (Protection against dust and high pressure washing)	
Spare Parts	9.6008.05 Rubber boot for AMP connection ① 9.6008.06 Wiring loom for AMP connection (2metres) ② 6041 Activating Switch ③ (see page 395)	
Compliance	SAE J994	

Heavy Duty Reversing Alarm

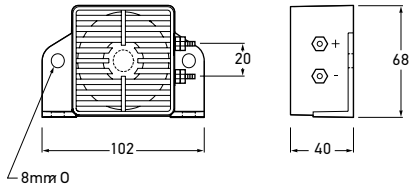
Heavy Duty Reversing Alarm with integral AMP connection. Automatically adjusts sound pressure level to changing noise environments. Solid state electronics, self-adjusting to the minimum of 5dB above surrounding noise levels effectively reducing irritation. Epoxy encapsulated circuit boards offer protection against humidity, dirt and vibration.



① P/N 9.6008.05 ② P/N 9.6008.06



③ P/N 6041



6015	3SL 910 035-001	102dB
Mounting	Surface mount (2 x 8.3mm dia. mounting holes)	
Voltage	12-24V DC	
Current Draw	0.3A	
Frequency	80 signals per minute (typical).	
Sound Frequency	1200 Hz (typical)	
Sound Level	102 ± 4dB @ 1.2m	
Temperature	Operating range -40°C to +74°C.	
Protection	IP 55	
Accessory	6041 Activating Switch ① (see page 395)	

Heavy Duty Reversing Alarm

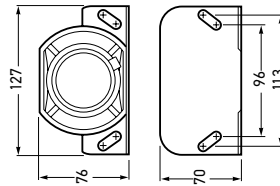
Heavy Duty Reversing Alarm equipped with reliable solid-state electronics. The compact design allows for installation on forklifts and other similarly sized vehicles. Manufactured in accordance with SAE J1446 and encapsulated in weather-resistant nylon housing for maximum protection against dust, moisture and vibration. Reverse-polarity and transient-voltage-spike protected.



③ P/N 6041

Heavy Duty Multivolt Reversing Alarm - 107dB

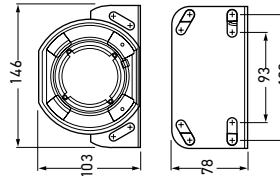
Heavy Duty Reversing Alarm with fixed sound pressure level of 107dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reverse-polarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards



6016	3SL 996 139-102	107dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	Multivolt (12-36V DC)	
Current Draw	0.4A	
Frequency	1040-1560Hz	
Sound Level	107 +/- at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Heavy Duty Multivolt Reversing Alarm - 112dB

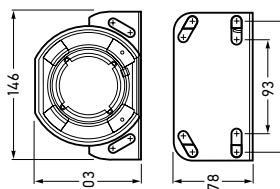
Heavy Duty Reversing Alarm with fixed sound pressure level of 112dB at 1.2 metres. Robust glass filled nylon housing and mounting plate protected with powder-coat paint for maximum durability. Completely sealed against humidity, dirt and vibration. Reverse-polarity and transient-voltage-spike protected. Manufactured in accordance with SAE J944 standards.



6017	3SL 996 139-112	112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	Multivolt (12-36V DC)	
Current Draw	0.4A	
Frequency	1000-1500Hz	
Sound Level	112 +/- at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Heavy Duty Multivolt Reversing Alarm, 87 - 112dB Automatic

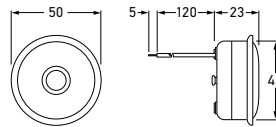
Heavy Duty Reversing Alarm automatically adjusts sound pressure level to changing noise environments. Solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels effectively reducing irritation and hearing impairment. Robust steel housing and mounting plate protected with powder-coat paint for maximum durability.



6018	3SL 996 139-002	87 - 112dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	Multivolt (12-24V DC)	
Current Draw	0.4A	
Frequency	960-1440Hz	
Sound Level	87 to 112 +/- at 1.2m	
Temperature Range	-40°C to + 85°C	
Protection	IP 66 (Protection against dust and high pressure washing)	

Warning Buzzer

Piercing continuous sound. Suitable for a variety of applications e.g. headlamp, oil, handbrake, indicator, temperature, door close/open, brake fluid, etc.

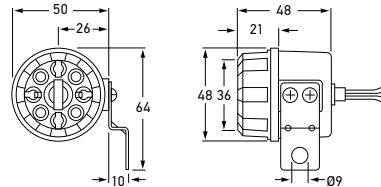


6021	3SB 905 413-001		85dB
6022	3SB 905 413-241		
Voltage	P/N 6021 P/N 6022	12V DC 24V DC	
Power Consumption	6W		
Current Draw	12V DC 24V DC	Less than 50mA Less than 25mA	
Sound Level	85dB		



Multivolt Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



6023	3SL 950 751-011		89dB
Voltage	12-36V DC		
Current Draw	Less than 50mA.		
Sound Level	89 +/- 2dB (at 1.2m)		



Activating Switch

Single direction. Off-on switch. Suits all reversing alarms and buzzers.

6041	6EH 905 414-001		OFF-ON
Mounting	Adjacent to the gear shift lever or linkage.		
Protection	IP 55 (Protection against dust and water jets)		
Suits	6043 - 6049 and 6008 - 6015		

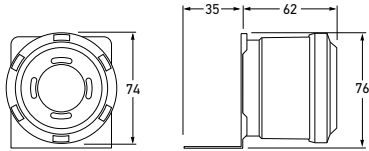


Evacuator Plus Heavy Duty Reversing Alarm

The Evacuator Plus Heavy Duty Reversing and Warning Alarm features a lightweight piezoelectric output circuit.

The reduced weight of just 129 grams makes the Evacuator Plus virtually immune to vibration damage. Unique nickel plated conductive terminal inserts, which provide power to the alarm, are hermetically sealed, giving superior water resistant performance.

The housing is constructed of high impact ABS plastic resin and is environmentally sealed against moisture, dust and corrosion. Evacuator Plus reversing and warning alarms are steam cleanable.

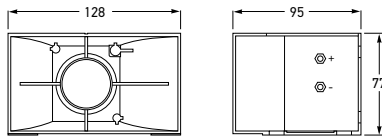


6043	3SL 905 415-001	97dB
6044	3SL 905 415-011	112dB
Mounting	Universal mounting comes complete with heavy-gauge plated steel mounting bracket. Can be installed on positive and negative ground vehicles.	
Voltage	P/N 6043/6044 - 12-48V DC	
Current Draw	Less than 0.10A	
Frequency	80 signals per minute +/- 20%	
Sound Level	P/N 6043 97dB @ 1.2m P/N 6044 112dB @ 1.2m	
Temperature	Operating range -40°C to 74°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reversing Alarm

Reactor Heavy Duty Reversing and Warning Alarm automatically adjusts to changing noise environments. State-of-the-art, solid-state electronics self-adjust to a minimum of 5dB above surrounding noise levels, thus reducing irritation, complaints and hearing impairment.

Reactor alarms feature integral universal mounting brackets and high impact ABS plastic resin housing and are totally environmentally sealed in epoxy to guard against moisture, dirt and vibration.



6047	3SL 905 415-021	82-107dB AUTO
Mounting	Universal mounting brackets.	
Voltage	9 - 56V DC (12 - 48V DC Systems)	
Current draw	Less than 0.25A	
Frequency	80 signals per minute. 1.15kHz	
Sound level	82 to 107dB @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	



ACCESSORIES



6048	3SL 905 415-031	87-112dB AUTO
Mounting	Universal mounting brackets.	
Voltage	9 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.50A	
Frequency	80 signals per minute. 1.15 kHz	
Sound level	87 to 112dB @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



6049	3SL 905 415-041	107/112dB MANUAL
Mounting	Universal mounting brackets.	
Voltage	6 - 36V DC (12 - 24V DC Systems)	
Current draw	Less than 0.8A	
Frequency	80 signals per minute. 1.2 kHz	
Sound level	107 or 112dB @ 1.2m	
Temperature	-40°C to 77°C	
Protection	IP 55 (Protection against dust and water jets)	
Compliance	SAE J994	

Reversing Alarm

Durable intermittent Reversing Alarm. Easily fitted to any car or truck's reversing lamp wiring system or wire to a switch on your dashboard.



Reactor alarms comply with SAE J994 requirements and OSHA regulations.



6051	3SL 012 870-001	92dB
6052	3SL 012 871-001	97dB
Mounting	Integrated universal mounting bracket for upright, pendant or surface mounting.	
Voltage	12-24V DC	
Current Draw	Max. 0.5A	
Frequency	White noise/broadband.	
Sound Level	P/N 6051 92 ± @ 1.2m P/N 6052 97 ± @ 1.2m	
Temperature	Operating range -40 to 85°C.	
Protection	IP 68 (Protection against dust and water immersion)	
Compliance	SAE J994 C €	

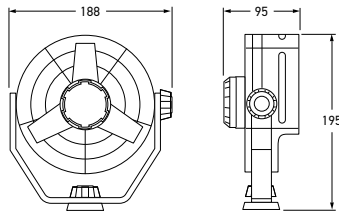
Broadband Reversing Alarm

Reversing Alarm with multi-frequency broadband sound.



Turbo Fan

Turbo Fans provide high capacity at low power consumption. Features include impact resistant housing, low-noise operation and soft plastic impellers, shielded by sturdy protective grille for added safety. Fans can be turned in all directions, and locked in position. Airflow can be regulated by two-stage switch.



6100	8EV 003 361-001	12 VOLT DC
6100-W	8EV 003 361-021 – White	
6101	8EV 003 361-011	24 VOLT DC
Power Consumption	6.5W	
Cable Length	Pre-wired with 1.4m of cable.	
Min. Service Life	5000 hours (tested under extreme conditions)	

BATTERY BOOSTER CABLES

Battery Booster Cables

Durable Battery Booster Lead Set featuring fully-insulated clamps with shunt and 4.0 metres of jumper lead. Copper cross-section 39.5mm² (490/0.32mm).



8852	8KA 910 236-011
Maximum Load	500A

Battery Booster Clamps

Fully-insulated Battery Booster Clamp with shunt featuring chrome-plated finish.



8853	8KX 910 236-021	■ RED
8854	8KX 910 236-001	■ BLACK
Maximum Load	500A	

PC FULLY-INSULATED FEMALE BLADE TERMINALS				
Part Numbers	Type	Quantity Per Pack	Size	Cable
8206 8KW 905 462-001	BLISTER PACK	10	6.3mm	2.5 to 3mm/0.75 to 1.13mm ²
8506 8KW 905 497-001	BULK PACK	100		
8207 8KW 905 464-001	BLISTER PACK	10	6.3mm	4mm/1.84mm ²
8507 8KW 905 498-011	BULK PACK	100		
8208 8KW 905 464-011	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm ²
8508 8KW 905 498-021	BULK PACK	50		

PC Insulated
Double Crimp Terminals



PC INSULATED MALE BLADE TERMINALS				
8209 8KW 905 465-001	BLISTER PACK	10	6.3mm	2.5 to 3mm/0.75 to 1.13mm ²
8509 8KW 905 498-031	BULK PACK	100		
8218 8KW 905 469-001	BLISTER PACK	10	6.3mm	4mm/1.84mm ²
8518 8KW 905 500-001	BULK PACK	100		
8219 8KW 905 469-011	BLISTER PACK	10	6.3mm	5 to 6mm/2.9 to 4.59mm ²
8519 8KW 905 500-011	BULK PACK	100		



PC INSULATED MALE BULLET TERMINALS				
8225 8KW 905 471-001	BLISTER PACK	10	4.0mm	2.5 to 3mm/0.75 to 1.13mm ²
8525 8KW 905 504-001	BULK PACK	100		
8526 8KW 905 504-011	BULK PACK	100	5.0mm	4mm/1.84mm ²



PC FULLY - INSULATED FEMALE BULLET TERMINALS				
8227 8KW 905 471-021	BLISTER PACK	10	4.0mm	2.5 to 3mm/0.75 to 1.13mm ²
8527 8KW 905 504-021	BULK PACK	100		
8528 8KW 905 504-031	BULK PACK	100	5.0mm	4mm/1.84mm ²



Insulated Double Crimp
Terminals/Connectors



FEMALE BLADE TERMINALS					
Part Numbers	Type	Quantity Per Pack	Size	Cable	
8200 8KW 905 461-001	BLISTER PACK	18	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable	
8500 8KW 905 496-001	BULK PACK	100			
8201 8KW 905 461-011	BLISTER PACK	14	6.3mm	4mm cable. 1.84mm ² cable	
8501 8KW 905 496-011	BULK PACK	100			
8202 8KW 905 461-021	BLISTER PACK	12	6.3mm	5 to 6mm cable 2.9 to 4.59mm ² cable	
8502 8KW 905 496-021	BULK PACK	50			
8203 8KW 905 461-031	BLISTER PACK	10	9.5mm		
8503 8KW 905 496-031	BULK PACK	50			
FULLY INSULATED FEMALE BLADE TERMINALS					
8204 8KW 905 461-041	BLISTER PACK	10	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable	
8504 8KW 905 496-041	BULK PACK	100			
8205 8KW 905 461-051	BLISTER PACK	10	6.3mm	4mm cable. 1.84mm ² cable	
8505 8KW 905 496-051	BULK PACK	100			
2-WAY MALE AND FEMALE BLADE TERMINALS					
8210 8KW 905 466-001	BLISTER PACK	10	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable	
8510 8KW 905 498-041	BULK PACK	100			
8211 8KW 905 466-011	BLISTER PACK	10	6.3mm	4mm cable. 1.84mm ² cable	
8511 8KW 905 498-051	BULK PACK	100			
8212 8KW 905 466-031	BLISTER PACK	19	6.3mm		
8512 8KW 905 498-061	BULK PACK	100			
MALE BLADE TERMINALS					
8213 8KW 905 467-001	BLISTER PACK	14	6.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable	
8513 8KW 905 499-001	BULK PACK	100			
8214 8KW 905 467-011	BLISTER PACK	14	6.3mm	4mm cable. 1.84mm ² cable	
8514 8KW 905 499-011	BULK PACK	100			
8215 8KW 905 467-021	BLISTER PACK	11	6.3mm	5 to 6mm cable 2.9 to 4.59mm ² cable	
8515 8KW 905 499-021	BULK PACK	100			

ACCESSORIES

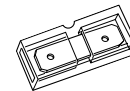
PUSH-ON FEMALE TERMINALS				
	Type	Quantity Per Pack	Size	Cable

MALE BULLET CONNECTORS				
8220 8KW 905 470-001	BLISTER PACK	14		2.5 to 3mm cable 0.75 to 1.13mm ² cable
8520 8KW 905 501-001	BULK PACK	100		
8221 8KW 905 470-011	BLISTER PACK	14		4mm cable. 1.84mm ² cable
8521 8KW 905 503-001	BULK PACK	100		

FEMALE BULLET CONNECTORS				
8222 8KW 905 470-021	BLISTER PACK	12		2.5 to 3mm cable 0.75 to 1.13mm ² cable
8522 8KW 905 503-011	BULK PACK	100		
8223 8KW 905 470-031	BLISTER PACK	11		4mm cable. 1.84mm ² cable
8523 8KW 905 503-021	BULK PACK	100		

DOUBLE MALE BLADE CONNECTORS				
8216 8KW 905 468-001	BLISTER PACK	9	6.3mm	N/A
8516 8KW 905 499-031	BULK PACK	50	6.3mm	N/A

Insulated Double Crimp Terminals/Connectors



MALE BLADE TERMINALS				
	Type	Quantity Per Pack	Size	Cable

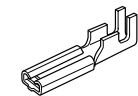
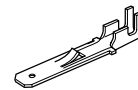
8570 8KW 905 512-001	BULK PACK	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8571 8KW 905 512-011	BULK PACK	100	6.3mm	4mm/1.84mm ²

FEMALE BLADE TERMINALS				
8572 8KW 905 512-021	BULK PACK	100	2.8mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8573 8KW 905 512-031	BULK PACK	100	6.3mm	4mm/1.84mm ²

EYE TERMINALS				
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8574 8KW 905 512-041	BULK PACK	100	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8575 8KW 905 513-001	BULK PACK	100	5.0mm	4mm/1.84mm ²
8576 8KW 905 513-011	BULK PACK	100	6.3mm	2.5 to 4mm cable. 0.75 to 1.84mm ² cable
8577 8KW 905 513-021	BULK PACK	100	8.4mm	2.5 to 4mm cable. 0.75 to 1.84mm ² cable

Non-Insulated Crimp Terminals













CABLE CONNECTORS				
	Type	Quantity Per Pack	Size	Cable
8230 8KW 905 472-001	BLISTER PACK	15		2.5 to 3mm cable 0.75 to 1.13mm ² cable
8530 8KW 905 508-001	BULK PACK	100		
8231 8KW 905 472-021	BLISTER PACK	14		4mm cable. 1.84mm ² cable
8531 8KW 905 508-011	BULK PACK	100		
8232 8KW 905 472-011	BLISTER PACK	8		5 to 6mm cable 2.9 to 4.59mm ² cable
8532 8KW 905 508-021	BULK PACK	100		

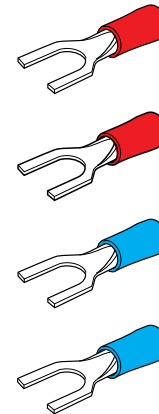
QUICK CONNECT CABLE CONNECTORS			
8235 8KW 950 034-001	BLISTER PACK	6	
8535 8KW 950 034-002	BULK PACK	25	



With the use of pliers, connects splices and insulates 0.75 to 1.13mm² (2.5 to 3mm) cable.

EYE TERMINALS				
8236 8KW 905 474-001	BLISTER PACK	25	4.3mm	4mm cable. 1.84mm ² cable
8536 8KW 905 509-001	BULK PACK	100		
8237 8KW 905 475-001	BLISTER PACK	12	9.5mm	4mm cable. 1.84mm ² cable
8537 8KW 905 509-011	BULK PACK	100		
8240 8KW 905 476-001	BLISTER PACK	25	4.3mm	
8540 8KW 905 510-001	BULK PACK	100		
8241 8KW 905 476-061	BLISTER PACK	25	5mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8541 8KW 905 510-011	BULK PACK	100		
8242 8KW 905 476-011	BLISTER PACK	16	6.3mm	
8542 8KW 905 510-021	BULK PACK	100		
8243 8KW 905 476-021	BLISTER PACK	25	5mm	
8543 8KW 905 510-031	BULK PACK	100		
8244 8KW 905 476-031	BLISTER PACK	20	6.3mm	4mm cable. 1.84mm ² cable
8544 8KW 905 510-041	BULK PACK	100		
8245 8KW 905 476-041	BLISTER PACK	14	8.4mm	
8545 8KW 905 510-051	BULK PACK	100		
8246 8KW 905 476-051	BLISTER PACK	12	6.3mm	
8546 8KW 905 510-061	BULK PACK	50		
8247 8KW 905 476-101	BLISTER PACK	12	8.4mm	
8547 8KW 905 510-071	BULK PACK	50		
8248 8KW 905 476-071	BLISTER PACK	10	9.5mm	5 to 6mm cable 2.9 to 4.59mm ² cable
8548 8KW 905 510-081	BULK PACK	50		
8249 8KW 905 476-081	BLISTER PACK	17	5mm	
8549 8KW 905 511-001	BULK PACK	50		

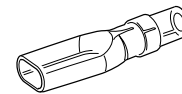
SPADE TERMINALS				
	Type	Quantity Per Pack	Size	Cable
8260 8KW 905 476-091	BLISTER PACK 	21	4.3mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8560 8KW 905 511-011	BULK PACK 	100		
8261 8KW 905 477-001	BLISTER PACK 	21	5.0mm	2.5 to 3mm cable 0.75 to 1.13mm ² cable
8561 8KW 905 511-021	BULK PACK 	100		
8262 8KW 905 477-011	BLISTER PACK 	20	4.3mm	4mm cable. 1.84mm ² cable
8562 8KW 905 511-031	BULK PACK 	100		
8263 8KW 905 477-021	BLISTER PACK 	21	5.0mm	4mm cable. 1.84mm ² cable
8563 8KW 905 511-041	BULK PACK 	100		


Insulated Crimp
Terminals/Connectors

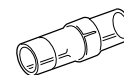


FEMALE TERMINAL INSULATORS				
	Type	Quantity Per Pack	Size	Suits
8578 8KX 905 513-031	BULK PACK 	100	2.8mm	Part No. 8572
8579 8KX 905 515-001	BULK PACK 	50	6.3mm	Part No. 8573

PVC Terminal Insulators



MALE/FEMALE TERMINAL INSULATORS				
	Type	Quantity Per Pack	Size	Cable
8580 8KX 905 516-001	BULK PACK 	100	6.3mm	Male bade and push-on Female (may be used to enclose crimp section of all types)



Handy Box® Service Kits

The Handy Box® Service Kit Complete Set contains all four Handy Box® Kits – Heat Shrink Kit, DT Connector Kit, Blade Fuse Kit and Crimp Terminal Kit. All parts in the kits are available as spares..



HM8291	9XX 910 121-101	HANDY BOX® SERVICE KIT COMPLETE SET
HM8296	9XX 011 959-001	HANDY BOX® CARRY CASE (EMPTY)

Handy Box® Heat Shrink Kit

The Handy Box® Heat Shrink Kit contains 576 Heat Shrink tubes of various diameters and length. All parts in the kit are available as spares.



HM8293	9MJ 178 458-821	HANDY BOX® HEAT SHRINK KIT	
Replacement Parts	9.HM4810	Heat Shrink Tubing	3 Colors 1,2...5 9MJ
	9.HM4811	Heat Shrink Tubing	BK/TR 1,2...50 9MJ
	9.HM4812	Heat Shrink Tubing	3-COLOR 1,6...50 9MJ
	9.HM4813	Heat Shrink Tubing	BK/TR 1,6...50 9MJ
	9.HM4814	Heat Shrink Tubing	3-COLOR 2,4...50 9MJ
	9.HM4815	Heat Shrink Tubing	BK/TR 2,4...50 9MJ
	9.HM4816	Heat Shrink Tubing	3-COLOR 3,2...50 9MJ
	9.HM4817	Heat Shrink Tubing	BK/TR 3,2...50 9MJ
	9.HM4818	Heat Shrink Tubing	5-COLOR 4,8-100 9MJ
	9.HM4819	Heat Shrink Tubing	5-COLOR 6,2-100 9MJ
	9.HM4820	Heat Shrink Tubing	BK/TR 9,5-100 9MJ
	9.HM4821	Heat Shrink Tubing	5-COLOR 4,8-200 9MJ
	9.HM4822	Heat Shrink Tubing	BK 9,5/12,7-200 9MJ

Handy Box® DT Connector Kit

The Handy Box® DT Connector Kit contains 258 of the most popular DT Connectors including tools. All parts in the kit are available as spares.



HM8292	8KW 910 119-101	HANDY BOX® DT CONNECTOR KIT	
Replacement Parts	9.HM4940G	2 Pin DT Plug Set	(Pack of 10)
	9.HM4941G	2 Pin DT Receptacle Set	(Pack of 10)
	9.HM4942G	3 Pin DT Plug Set	(Pack of 10)
	9.HM4943G	3 Pin DT Receptacle Set	(Pack of 10)
	9.HM4946G	6 Pin DT Plug Set	(Pack of 8)
	9.HM4947G	6 Pin DT Receptacle Set	(Pack of 8)

Handy Box® Blade Fuse Kit

The Handy Box® Blade Fuse Kit contains 475 of the most popular amperage and blade fuse sizes. All parts in the kit are available as spares.



HM8294	8JS 009 257-831	HANDY BOX® BLADE FUSE KIT
Contents	Flat Fuse Insert 2A 8JS	
	Flat Fuse Insert 3A 8JS	
	Flat Fuse Insert 4A 8JS	
	Flat Fuse Insert 5A 8JS	
	Flat Fuse Insert 7,5A 8JS	
	Flat Fuse Insert 10A 8JS	
	Flat Fuse Insert 15A 8JS	
	Flat Fuse Insert 20A 8JS	
	Flat Fuse Insert 25A 8JS	
	Flat Fuse Insert 30A 8JS	
	Flat Fuse Insert 2A 8JS	
	Fuse-Link 3A 8JS	
	Flat Fuse Insert 4A 8JS	
	Flat Fuse Insert 5A Fivefold 8JS	
	Flat Fuse Insert 7,5A 8JS	
	Flat Fuse Insert 10A 8JS	
	Fuse-Link 8JS	
	Flat Fuse Insert 20A 8JS	
	Flat Fuse Insert 25A 8JS	
	Fuse Insert 30A 8JS	
	Flat Fuse Insert 40A 8JS	

Handy Box® Crimp Terminal Kit

The Handy Box® Crimp Terminal Kit contains 401 of the most popular terminals and connectors and a crimp terminals tool. All parts in the kit are available as spares.



HM8295	8KW 009 254-841	HANDY BOX® CRIMP TERMINAL KIT
Contents	Flat Fuse Insert 2A 8JS	
	Cable Shoe 4-1 8KW	
	Cable Shoe 5-1 8KW	
	Flat Receptacle Female 8KW	
	Flat Terminal 6,3 8KW	
	Round Plug 4 8KW	
	Cable Shoe 5-2,5 8KW	
	Flat Receptacle Female 6,3 8KW	
	Cable Shoe 4-2,5 8KW	
	Cable Shoe 5-2,5 8KW	
	Cable Lug Shoe 6-2,5 574-99 8KW	
	Joint Connector 8KW	
	Flat Terminal 6,3 8KW	
	Flat Terminal 6,3 8KW	
	Circular Socket D4 8KW	
	Flat Terminal (Female) Receptacle 8KW	
	Flat Terminal (Female) Receptacle 8KW	
	Cable Shoe 8KW	
	Cable Shoe 8KW	
	Clutch 8KW	
	Connector, Insulating Splice 8KV	
	Crimping Tool 8PE	

Insulated Terminal Assortment

Pack of 16 and 29 popular HELLA connectors/terminals.



Part No 8280



Part No 8281

8280	8KW 905 485-001	➔	PACK OF 16
8281	8KW 905 486-001	➔	PACK OF 29

Garage/Auto Electrical Assortment Kit - 188 Piece

Assortment containing 12 complete packs of HELLA connectors/terminals specifically designed to meet the requirements of the automotive industry.



8282	8KW 905 487-001
------	-----------------

Contents A quantity of 12 complete packs.

Part Numbers	Description	Quantity
8200	Female blade terminal	18
8201	Female blade terminal	14
8202	Female blade terminal	12
8203	Female blade terminal	10
8210	2-way male and female blade terminal	10
8211	2-way male and female blade terminal	10
8230	Cable connector	15
8231	Cable connector	14
8232	Cable connector	8
8241	Eye terminal	25
8244	Eye terminal	20
8247	Eye terminal	12

Insulated Terminal and Connector Kit - 1025 Piece

This Professional Assortment containing 1025 HELLA Connectors/Terminals and a Ratchet Crimping Tool Part No. 8273, is designed to meet the requirements of the automotive industry. Includes a quantity of 20 complete packs.



8284	8KW 905 489-001
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Contents 20 types of HELLA connectors/terminals.

Part Numbers	Description	Quantity
8200	Female blade terminal	100
8201	Female blade terminal	100
8202	Female blade terminal	50
8204	Fully Insulated female blade terminal	50
8205	Female blade terminal	50
8213	Male blade terminal	50
8214	Male blade terminal	50
8220	Male bullet connector	50
8221	Male bullet connector	50
8222	Male bullet connector	50
8223	Female bullet connector	50
8230	Female bullet connector	50
8231	Cable connector	50
8232	Cable connector	50
8241	Eye terminal	50
8243	Eye terminal	50
8244	Eye terminal	50
8246	Eye terminal	25
8247	Eye terminal	25
8248	Eye terminal	25

ACCESSORIES

8PE 014 032-001 - Flat Watertight Socket

8PE 014 032-011 - Round Watertight Socket

These OE Quality Crimping Tool are recommended for proper crimping.



8270

8PE 905 478-001

Positive-lock action when connector is correctly crimped. Adjustable for wear. Strips cable insulation from 2.5-6mm in diameter (0.75 - 6mm²). Cuts and sizes cable.



8272

8PE 905 478-021 - Insulated Terminals

Spring return hand grips. Cuts and strips insulation from cable measuring 2.5-6mm in diameter (0.75-6mm²). Crimps all popular insulated and non-insulated terminals. Cuts bolts with metric threads M2.6, M3, M3.5, M4, M5.



8273

8PE 905 479-001 - Insulated Terminals

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for insulated terminals.



8274

8PE 905 479-021 - Non-Insulated Terminals

Adjustable ratchet mechanism and spring release ensures a perfect crimp every time for open barrel non-insulated terminals.



HM8275

8PE 980 837-001 - DT Terminals

Specially designed crimping tool with multiple jaws for an even crimp of DT terminals. See page 408 for DT connectors.



HM8277

8PE 910 118-011 - DT Contacts

DT Contact Crimping Tool - 0.5 - 1.0mm



HM8298

8PE 980 838-001 - Super Seal Terminals

Crimping tool designed for use with super seal connector terminals. See page 410 for super seal connectors.



8283

8KW 905 488-001 - Handyman Crimp Kit

Especially designed for the handyman and hobbyist, this kit contains a useful crimping tool that cuts cable, strips cable insulation and crimps all popular insulated terminals. Comes complete with an assortment of 29 popular HELLA connectors and terminals.



DT Connectors

Environmentally sealed connectors rated at -55° to 125°C. Supplied with solid copper crimp contacts, locking wedges and large I.D. removable contacts, 1.9mm in diameter.

Maximum Load	13A - all contacts	
Spare Parts	9.HM4960.01	Small I.D. female contact to suit plug
	9.HM4960.02	Small I.D. male contact to suit socket
	9.HM4960.03	Large I.D. female contact to suit plug
	9.HM4960.04	Large I.D. male contact to suit socket
	9.HM4960.05	Sealing plug



Small I.D. = 1.6mm diameter. Large I.D. = 1.9mm diameter. Plug and socket kits come complete with terminals and seals.

2 Pole Plug and Socket

Supplied with 4 solid copper crimp contacts and 2 locking wedges. Bulk pack supplied with 2 pole connectors and contacts to suit.



2 POLE PLUG AND SOCKET		
HM4960	8KW 959 772-821	
HM4960FM	9MK 910 095-001 Half Set Female (socket) only (with male contacts)	PACK OF 10
2 POLE PLUG KIT		
4960-P	8JA 959 736-811	PACK OF 1

3 Pole Plug and Socket

Supplied with 6 solid copper crimp contacts and 2 locking wedges.



HM4961	8KW 959 772-851	
HM4961FM	8KW 959 773-847 Half Set Female (socket) only (with male contacts)	PACK OF 10

4 Pole Plug and Socket

Supplied with 8 solid copper crimp contacts and 2 locking wedges.



HM4962	8KW 959 772-861	
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6 Pole Plug and Socket

Supplied with 12 solid copper crimp contacts and 2 locking wedges.

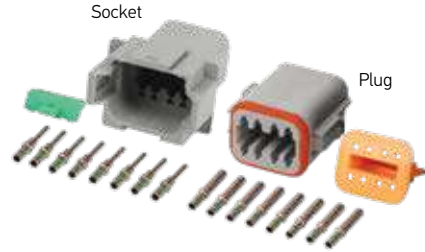
HM4963	8KW 959 774-821	
4963-P	8JA 959 736-801 – 6 Pin Plug Kit	PACK OF 1
HM4963FM	8KW 959 774-817 – 6 Pin Plug Kit. Half Set Female (socket) only (with male contacts)	PACK OF 10



8 Pole Plug and Socket

Supplied with 16 solid copper crimp contacts and 2 locking wedges.

HM4964	8KW 959 774-831	
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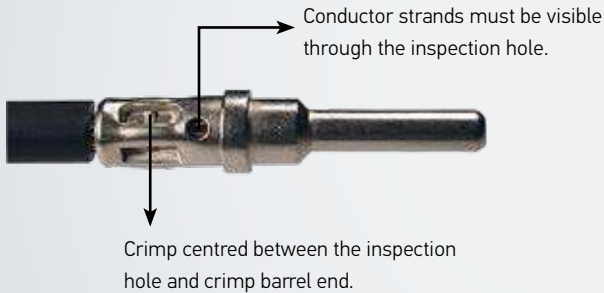
12 Pole Plug and Socket

Supplied with 24 solid copper crimp contacts and 2 locking wedges.

HM4965	8KW 959 774-841	
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A PROPER CRIMP



Visual Inspection Checklist

- ✓ NO damaged wire strands.
- ✓ NO missing wire strands.
- ✓ ALL strands entered into contact barrel.

Super Seal Connectors

Super seal connector housings were developed to satisfy increasing requirements for safety and reliability in the field of electrical connections. The connectors can be connected to existing components and used with the equipment presently in use in the automotive industry (sensors, oil pressure sensors, water temperature monitoring circuits, etc.).

- IP 67 (Protection against dust and temporary water immersion)
- Robust and reliable contact. Max. current 14A.
- Prefabricated secondary lock ensures that the terminal is plugged into the housing correctly and prevents slipping out of the connector.



For 'P' and 'S' versions only the bare connector is supplied. Select appropriate seals and terminals to suit.



1 POLE PLUG AND SOCKET		
HM4981-P	8KW 959 881-516 – (Pack of 4)	PLUG
HM4981-S	8KW 959 881-016 – (Pack of 4)	SOCKET



2 POLE PLUG AND SOCKET		
HM4982-P	8KW 959 881-521 – (Pack of 4)	PLUG
HM4982-S	8KW 959 881-006 – (Pack of 4)	SOCKET
Spare Part	9.4982.05	Rubber sealing boot – cable support



3 POLE PLUG AND SOCKET		
HM4983-P	8KW 959 881-536 – (Pack of 3)	PLUG
HM4983-S	8KW 959 881-036 – (Pack of 3)	SOCKET
Spare Part	9.4983.05	Rubber sealing boot – cable support



4 POLE PLUG AND SOCKET		
HM4984-P	8KW 959 881-546 – (Pack of 3)	PLUG
HM4984-S	8KW 959 881-046 – (Pack of 3)	SOCKET



5 POLE PLUG		
HM4985-P	8KW 959 881-556 – (Pack of 2)	PLUG



6 POLE PLUG AND SOCKET		
HM4986-P	8KW 959 881-566 – (Pack of 2)	PLUG
HM4986-S	8KW 959 881-066 – (Pack of 2)	SOCKET

ACCESSORIES

Super Seal Connector Kit

Kit contains a variety of super seal connectors.

HM4980		
Contents	Plug and Socket Plug Terminals Socket Terminals Conductor Seals Cavity Plugs	5 x Super Seal Plug and Sockets 100 x 9.HM4980.02 100 x 9.HM4980.04 100 x 9.HM4980.06 ■ Yellow 100 x 9.HM4980.09 ■ Red



FEMALE TERMINALS FOR PLUG - PACK OF 50		
9.HM4980.01	8KW 959 882-818	
9.HM4980.02	8KW 959 882-518	
To Suit	P/N 9.HM4980.01 P/N 9.HM4980.02	0.35 - 0.50mm ² cable 0.50 - 1.50mm ² cable



Plug Terminal

MALE TERMINALS FOR SOCKET - PACK OF 50		
9.HM4980.03	8KW 959 882-418	
9.HM4980.04	8KW 959 882-118	
To Suit	P/N 9.HM4980.03 P/N 9.HM4980.04	0.35 - 0.50mm ² cable 0.50 - 1.50mm ² cable



Socket Terminal

SEALS FOR PLUG/SOCKET - PACK OF 50			
9.HM4980.05	9GD 959 883-208		■ GREEN SEAL
9.HM4980.06	9GD 959 883-008		■ YELLOW SEAL
9.HM4980.07	9GD 959 883-308		■ RED SEAL
9.HM4980.09	9GD 959 883-508		■ RED CAVITY PLUG (NO HOLE)
To Suit	P/N 9.HM4980.05 P/N 9.HM4980.06 P/N 9.HM4980.07 P/N 9.HM4980.09	Cable insulation 1.45 - 1.7mm diameter Cable insulation 1.8 - 2.4mm diameter Cable insulation 2.5 - 3.3mm diameter Red cavity plug (no hole)	■ GREEN ① ■ YELLOW ② ■ RED ③

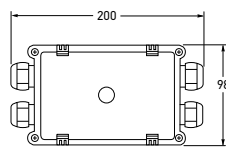


CRIMPING TOOL - SUPER SEAL TERMINALS	
HM8298	8PE 980 838-001
Crimping tool designed for use with super seal connector terminals.	

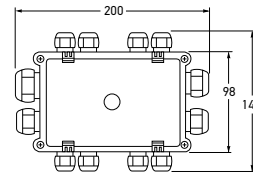


Cable Junction Box

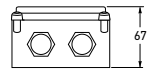
Compact Cable Junction Box with the option of 4 or 12 inlet/outlets, and outer cable size from Ø10mm to Ø17mm. Complete with connecting cartridge allowing 14 separate groups of connections (6 x 8-way and 8 x 4-way) all using 6.3mm flat blade connectors. The heavy duty nylon housing will withstand common lubricants found underneath truck and trailers, and is safe to clean with high pressure washing equipment.



P/N 2770



P/N 2771



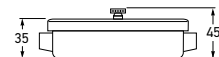
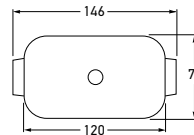
2770	8KV 177 785-011	4 OUTLETS
2771	8KV 177 785-001	12 OUTLETS
Fittings	2770 4 x Ø13mm 2771 1 x Ø17mm + 3 x Ø13mm + 8 x Ø10mm	
Protection	IP 69K (Protection against dust and high pressure/steam jet cleaning)	
Plug Cartridge	14 separate connection groups.	



Connecting cartridge

Cable Junction Box

8 Screw connections.



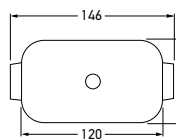
2757	8KV 002 143-032
Cable	Suitable for medium cable up to 6mm ² cross-sectional area.

Cable Junction Box

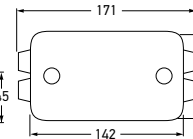
8 pole, 8 double flat plug connection.



P/N 2759



P/N 2758



P/N 2759

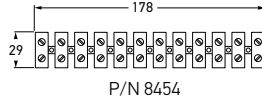
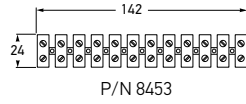
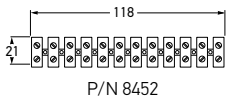
2758	8KV 002 145-002
2759	8KV 004 259-031
To Suit	P/N 2758 Suitable for medium cable up to 6mm ² cross-sectional area. P/N 2759 Suitable for heavy cable up to 10mm ² cross-sectional area.



P/N 2758

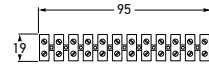
Cable Connectors

Set of 12 Brass Terminals. Flexible plastic.



8455	8KV 002 137-001	SET OF 12
8452	8KV 002 139-001	
8453	8KV 002 140-001	
8454	8KV 002 141-001	

To Suit	P/N 8455	Cables up to 2.5mm (0.75mm ²)
	P/N 8452	Cables up to 3mm (1.13mm ²)
	P/N 8453	Cables up to 4mm (2.90mm ²)
	P/N 8454	Cables up to 6mm (4.59mm ²)



P/N 8455

P/N 8452	P/N 8453	P/N 8454

Self-Amalgamating Loom Tape

Polyethylene self-amalgamating loom tape ideal for waterproof sealing of electrical connections, temporary repair and sealing of plumbing joints. Also suitable for emergency repair of radiators, engine hoses and auto electrics. Easy to unwind and resistant to water, ozone, UV and a wide range of chemicals including alkalis, hydraulic fluids and vegetable oils.



HMAT85	9MJ 910 147-001 – (Pack of 4)
Voltage	34kV/mm
Elongation	600%
Temperature Range	-35°C to 130°C
Size	Tape Thickness 0.5mm – tensile strength at break 12N/cm.

PVC Electrical Insulation Tape - Black

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.



8320	9MJ 905 490-001	10m	■ BLACK	18MM X 10M
8322	9MJ 905 490-021	20m	■ BLACK	18MM X 20M
Voltage	8.0kV (1 minute proof test 6.0kV)			
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength at break 26N/cm.			

PVC Electrical Insulation Tape - Red

Flame-retardant PVC Electrical Insulation Tape, complying with British standards BS3924 31/90Tp, BS3J10, BS3887 (1985) Part 2 Category 1 and IEC 454-3-1.



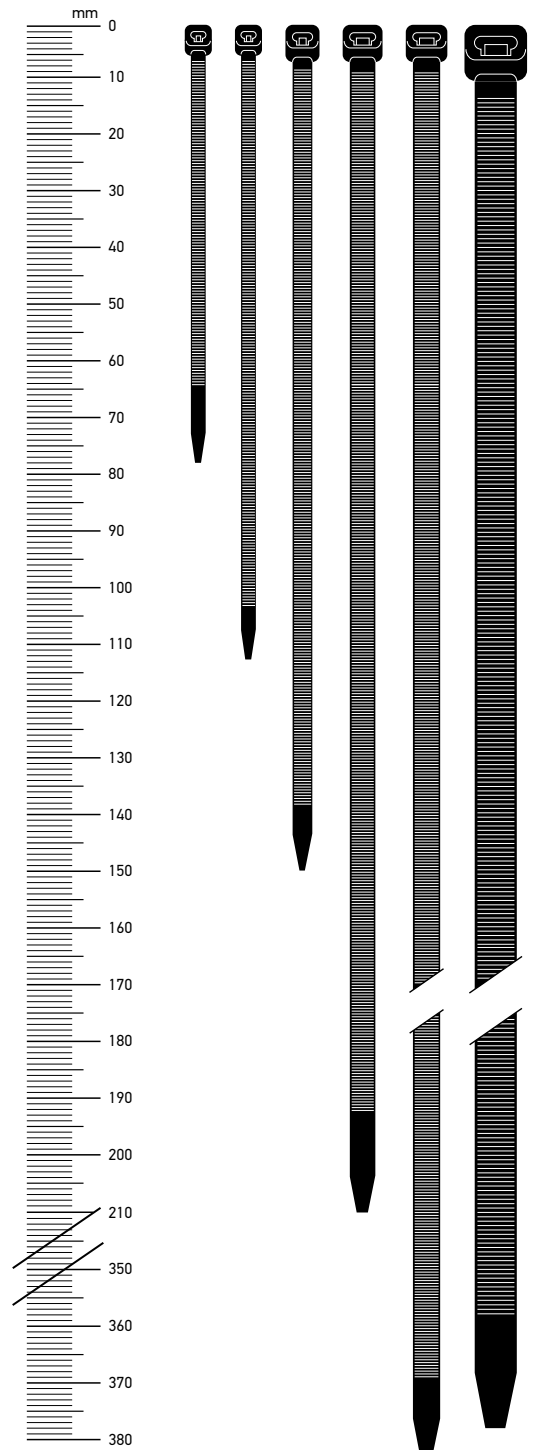
8321	9MJ 905 490-011	10m	■ RED	18MM X 10M
8323	9MJ 905 490-031	20m	■ RED	18MM X 20M
Voltage	8.0kV (1 minute proof test 6.0kV)			
Conductivity	Less than 2m S/m			
Insulation Resistance	107 megohms			
Electrical Properties	Rapid Breakdown			
Size	Tape Thickness 0.145mm – tensile strength at break 26N/cm.			

Nylon Cable Ties

100% 6/6 nylon cable ties. Very flexible locking latch. Bell-mouthed head allows easier threading than previous ties. Strongest possible locking power without damaging the serrations of the tie. Quick fastening and simple locking mechanism. Black ties are UV resistant.

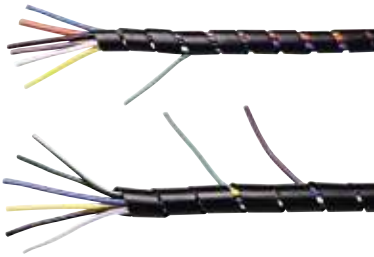
WHITE CABLE TIES		
Quantity 100 Per Pack	Length	Width
8341 8HL 905 491-101	78mm	2.5mm
8342 8HL 905 491-121	103mm	2.5mm
8343 8HL 905 491-141	143mm	3.2mm
8344 8HL 905 491-161	191mm	4.5mm
8345 8HL 905 491-181	368mm	4.8mm
8346 8HL 905 491-202	378mm	7.6mm

BLACK UV RESISTANT CABLE TIES			
Quantity 10 Per Pack	Quantity 100 Per Pack	Length	Width
8341UV 8HL 905 491-111	-	78mm	2.5mm
-	8342UV 8HL 905 491-131	103mm	2.5mm
8343UV 8HL 905 491-031	8333UV 8HL 905 491-151	143mm	3.2mm
8344UV 8HL 905 491-051	8334UV 8HL 905 491-171	191mm	4.5mm
8345UV 8HL 905 491-071	8335UV 8HL 905 491-191	368mm	4.8mm
8346UV 8HL 905 491-091	8336UV 8HL 905 491-211	378mm	7.6mm



Cable Wraps

Manufactured from moisture-resistant black polyethylene. Stable to a temperature of 100°C.



CONVOLUTED SPLIT TUBING				
	Internal Diameter	Contents	Length	Wrapping Range
8347 8JR 950 888-001	6mm	1	10m	6 to 18mm
8348 8JR 950 888-011	12mm	1		12 to 35mm

Manufactured from black polypropylene. Temperature Range: -20°C to +60°C.



CONVOLUTED SPLIT TUBING			
	Internal Diameter	Contents	Length
8351 8JR 910 196-071	7mm	1	10 metres
8356 8JR 910 196-081			30 metres
8349 8JR 910 196-001	10mm	1	10 metres
8357 8JR 910 196-011			30 metres
8350 8JR 910 196-021	13mm	1	10 metres
8358 8JR 910 196-031			30 metres
8352 8JR 910 196-041	16mm	1	10 metres
8353 8JR 910 196-051	20mm	1	10 metres
8355 8JR 910 196-061	25mm	1	3 metres

Heat Shrink Tubing Assortment

8379	9MJ 905 495-161 – Heat Shrink Tubing	
Content	Diameter	Colour
	2 x 3.2mm	■ BLACK
	2 x 4.8mm	
	2 x 6.4mm	
	2 x 3.2mm	■ RED
	2 x 4.8mm	
	2 x 6.4mm	

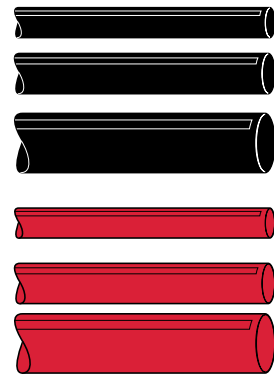
Assortment of 12 x 200mm lengths of Heat Shrink Tubing ranging from 3.2mm to 6.4mm diameter.



Heat Shrink Tubing Assortment

8380	9MJ 905 495-171 – Heat Shrink Tubing	
Content	Diameter	Colour
	2 x 9.5mm	■ BLACK
	2 x 12.7mm	
	2 x 19.0mm	
	2 x 9.5mm	■ RED
	2 x 12.7mm	
2 x 19.0mm		

Assortment of 12 x 200mm lengths of Heat Shrink Tubing ranging from 9.5mm to 19mm diameter.



Heat Shrink Tubing Assortment



HEAT SHRINK TUBING - ASSORTMENT					
	Type	Pre - Shrunk Diameter	Shrunk Diameter	Length	Colour
8361 9MJ 910 188-081	BLISTER PACK 	2.4mm	1.2mm	1.2m	■
8371 9MJ 910 188-091					■
8362 9MJ 910 188-101	BLISTER PACK 	3.2mm	1.6mm	1.2m	■
8372 9MJ 910 188-111					■
8363 9MJ 910 188-121	BLISTER PACK 	4.8mm	2.4mm	1.2m	■
8373 9MJ 910 188-151					■
8364 9MJ 910 188-141	BLISTER PACK 	6.4mm	3.2mm	1.2m	■
8374 9MJ 910 188-151					■
8365 9MJ 910 188-001	BLISTER PACK 	9.5mm	4.8mm	1.2m	■
8375 9MJ 910 188-011					■
8366 9MJ 910 188-021	BLISTER PACK 	12.7mm	6.4mm	1.2m	■
8376 9MJ 910 188-031					■
8367 9MJ 910 188-041	BLISTER PACK 	19 mm	9.5mm	1.2m	■
8377 9MJ 910 188-051					■
8368 9MJ 910 188-061	BLISTER PACK 	25.4mm	12.7mm	1.2m	■
8378 9MJ 910 188-071					■

8275

8PE 905 480-001

Self-adjusting Cable End Stripper and Cutter. Suitable for cables ranging from 1mm² to 6mm² cross-sectional area.

Cable Stripper/Cutter



8277

8PE 905 482-001

High-quality Cable Cutter suitable for copper cable up to 70mm² cross-sectional area. Cleanly cuts finely stranded battery and welding cables used in automotive applications. Length of 195mm ensures adequate leverage for ease of cutting.

Cable Cutter



8278

8PE 905 483-001

Nylon Tie Tension and Cutting Tool. Suitable for cable ties ranging from 2.2mm to 4.8mm width.

Cable Tie Gun



8279

8PE 910 002-031

Durable Nylon Tie Gun with automatic cut-off. Suitable for cable ties ranging from 2.2mm to 4.8mm width.

Cable Tie Gun - Automatic Cut



8299

8PE 910 002-021

Robust Nylon Cable Tie Gun featuring automatic cut-off and adjustable tension for maximum durability and extended service life. Suitable for heavy-duty cable ties ranging from 3.6mm to 9mm width.

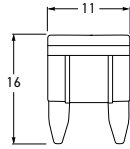
Cable Tie Gun Heavy Duty, Automatic Cut



Mini Blade Fuses (ATN)

- Pack of 10

10 popular Blade Fuses – ideal for the glove box.

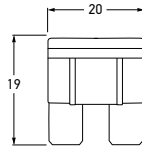


P/N 8772MINI	P/N 8773MINI	P/N 8774MINI
P/N 8775MINI	P/N 8776MINI	P/N 8777MINI

8771MINI	8JS 905 527-011	BLISTER PACK	TAN	5A
8772MINI	8JS 905 528-011	BLISTER PACK	BROWN	7.5A
8773MINI	8JS 905 529-011	BLISTER PACK	RED	10A
8774MINI	8JS 905 531-011	BLISTER PACK	BLUE	15A
8775MINI	8JS 905 533-011	BLISTER PACK	YELLOW	20A
8776MINI	8JS 905 534-011	BLISTER PACK	WHITE	25A
8777MINI	8JS 905 535-011	BLISTER PACK	GREEN	30A

Standard Blade Fuses (ATS)

- Pack of 10

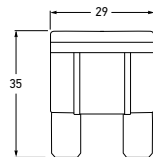


P/N 8772	P/N 8773	P/N 8774
P/N 8775	P/N 8776	P/N 8777

8771	8JS 905 527-001	BLISTER PACK	TAN	5A
8772	8JS 905 528-001	BLISTER PACK	BROWN	7.5A
8773	8JS 905 529-001	BLISTER PACK	RED	10A
8774	8JS 905 531-001	BLISTER PACK	BLUE	15A
8775	8JS 905 533-001	BLISTER PACK	YELLOW	20A
8776	8JS 905 534-001	BLISTER PACK	WHITE	25A
8777	8JS 905 535-001	BLISTER PACK	GREEN	30A

Maxi Blade Fuses (ATM)

- Single Pack



P/N 8791	P/N 8792	P/N 8793
P/N 8794	P/N 8796	P/N 8795

8790	8JS 905 540-001	BLISTER PACK	YELLOW	20A
8791	8JS 905 540-011	BLISTER PACK	GREEN	30A
8792	8JS 905 540-021	BLISTER PACK	ORANGE	40A
8793	8JS 905 540-031	BLISTER PACK	RED	50A
8794	8JS 905 540-041	BLISTER PACK	BLUE	60A
8796	8JS 905 540-061	BLISTER PACK	BROWN	70A
8795	8JS 905 540-051	BLISTER PACK	WHITE	80A

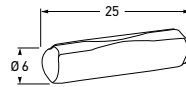
ACCESSORIES

LED Fuse Puller/Tester



9.HM4993	8PD 910 299-001 – Tool for testing and removal of blade fuses.
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FUSES AND CIRCUIT BREAKERS

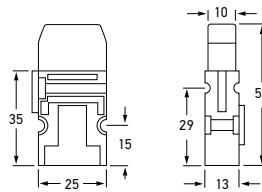


8750	8JS 025 889-001	BLISTER PACK	WHITE	8 AMP
8753	8JS 089 015-001	BLISTER PACK	BLUE	16 AMP
8751	8JS 091 603-001	BLISTER PACK	RED	25 AMP

Ceramic Fuses - 6AC Pack of 10



FUSE HOLDERS



Single Blade Fuse Holder

30 Amps maximum. May be interlocked face to face or end to end. Complete with transparent dust cover lid and snap-in terminals.



8718	8JD 005 235-001
Cable	Suitable for cable up to 2.90mm ² cross sectional area.

Single In-line Blade Fuse Holder

20 Amps maximum. Complete with 15A blade fuse. Quick connect type, manufactured by 3M - U.S.A.



8719	8JD 905 523-001
Cable	Suitable for cable up to 1.84mm ² cross sectional area.

Garage & Auto Electrical Fuse Assortment Kit

100 of the most popular blade and ceramic fuses.



8778		8JS 905 536-001	
		Colour	Quantities
Content	8771	Tan Blade 5A	10
	8772	Brown Blade 7.5A	10
	8773	Red Blade 10A	10
	8774	Blue Blade 15A	10
	8775	Yellow Blade 20A	10
	8776	White Blade 25A	10
	8777	Green Blade 30A	10
	8750	White Ceramic 8A	10
	8751	Red Ceramic 25A	10
	8753	Blue Ceramic 16A	10

Motorist Mini- Fuse Assortment (ATS) - Pack of 10

10 popular mini blade fuses



8779MINI		8JS 905 537-011	
		Colour	Quantities
Content	8771MINI	Tan Blade 5A	1
	8772MINI	Brown Blade 7.5A	1
	8773MINI	Red Blade 10A	2
	8774MINI	Blue Blade 15A	2
	8775MINI	Yellow Blade 20A	2
	8776MINI	White Blade 25A	1
	8777MINI	Green Blade 30A	1

Motorist Fuse Assortment (ATS) - Pack of 10

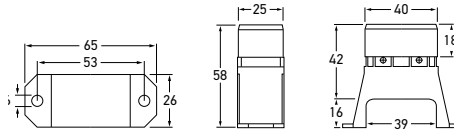
10 popular Blade Fuses – ideal for the glove box.



8779		8JS 905 537-001	
		Colour	Quantities
Content	8772	Brown Blade 7.5A	1
	8773	Red Blade 10A	2
	8774	Blue Blade 15A	2
	8775	Yellow Blade 20A	2
	8776	White Blade 25A	2
	8777	Green Blade 30A	1

Blade Fuse Box - 4 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.

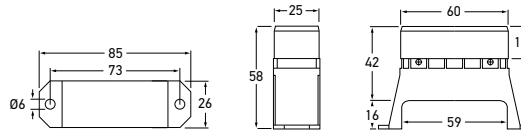


8720	8JD 905 524-001
Number of Fuses	4
Fuse Type	2 x 10A 2 x 15A



Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.

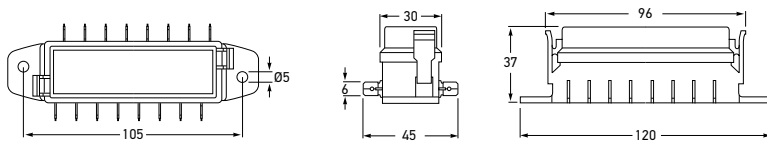


8721	8JD 905 524-011
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A



Blade Fuse Box - 8 Fuses

Black plastic housing with transparent snap-fit lid. Flat plug connections.

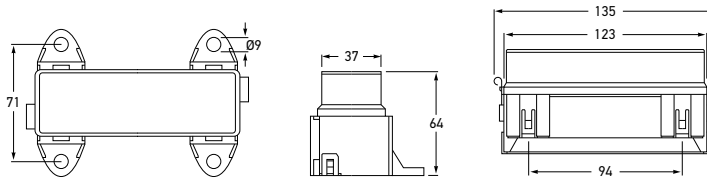


8722	8JD 905 524-021
Number of Fuses	8
Fuse Type	4 x 10A 4 x 15A



Blade Fuse Box - 16 Fuses

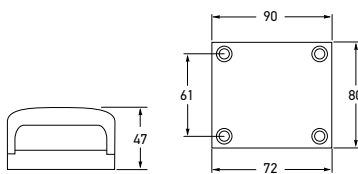
16-way Fuse Box featuring black plastic housing with secondary locks, transparent cover and sealing gasket. Supplied with mounting brackets (male and female).



8724	8JD 905 524-031
Number of Fuses	16
Fuse Type	6 x 10A 6 x 15A 2 x 20A 2 x 25A

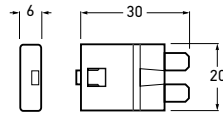
Blade Fuse Box - 6 Fuses

Black plastic housing with transparent snap-fit lid and 6.3mm male blade terminals. 6mm diameter stud input. Complete with 2 spare fuse holders and label set.



8725	8JD 005 993-093
Number of Fuses	6
Fuse Type	3 x 10A 3 x 15A

**Manual- Reset Circuit Breakers
28 Volts DC**



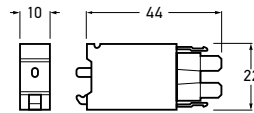
8730	8JS 910 017-051	10 - 28V DC	6A
8731	8JS 910 017-061	10 - 28V DC	8A
8732	8JS 910 017-011	10 - 28V DC	10A
8733	8JS 910 017-021	10 - 28V DC	15A
8734	8JS 910 017-031	10 - 28V DC	20A
8735	8JS 910 017-041	10 - 28V DC	25A

Voltage	Max. 28V DC (Min 10V DC)
Mounting	Blade Fuse replacement

Miniaturised manual-reset, single-pole thermal Circuit Breaker for automotive fuse block installation as a replacement for standard blade fuses. Designed to suit extra-low-voltage wiring systems on all types of vehicles and marine craft.



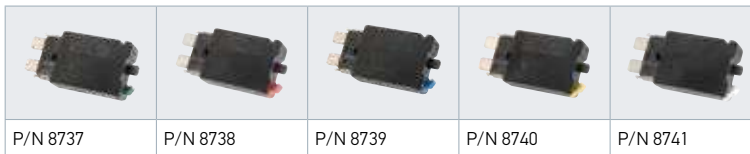
**Circuit Breakers - Standard Blade
Fuse Replacement**



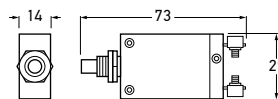
8736	8JS 981 761-001	■ PURPLE	3A
8737	8JS 981 762-001	■ GREEN	6A
8738	8JS 981 757-001	■ RED	10A
8739	8JS 981 758-001	■ BLUE	15A
8740	8JS 981 759-001	■ YELLOW	20A
8741	8JS 981 760-001	■ WHITE	25A

Voltage	Max. 28V DC (Min. 10V DC)
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Compact single pole, heavy duty thermal circuit breakers with push-to-reset mechanism and separate (colour coded) manual release for extra low voltage wiring systems on all types of vehicles and marine craft. Fitted with blade terminals for plug-in mounting and retaining clips and ribs for increased pull-out force and vibration resistance. Ideal replacement for blade fuses in heavy duty applications.



**Manual- Reset Circuit Breakers
28 Volts DC - Screw Connection**



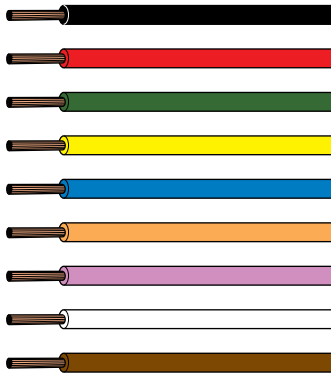
8742	8JS 910 017-071	10 - 28V DC	10A
8743	8JS 910 017-081	10 - 28V DC	20A
8744	8JS 910 017-091	10 - 28V DC	25A
8745	8JS 910 017-101	10 - 28V DC	30A
8746	8JS 910 017-111	10 - 28V DC	35A

Voltage	Max. 28V DC (Min 10V DC)
Mounting	Fitted with moulded thread neck (10mm dia.) for panel mounting

Manual-reset, single-pole thermal Circuit Breaker with push-to-reset mechanism and screw terminals for extra-low-voltage systems.

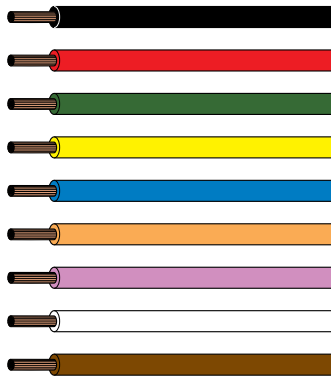


Single Core Automotive Cable
- 3mm



8800	8KL 905 541-001	■ BLACK
8801	8KL 905 541-011	■ RED
8802	8KL 905 541-021	■ GREEN
8803	8KL 905 541-031	■ YELLOW
8804	8KL 905 541-041	■ BLUE
8805	8KL 905 541-051	■ ORANGE
8806	8KL 905 541-061	■ VIOLET
8807	8KL 905 541-071	■ WHITE
8808	8KL 905 541-081	■ BROWN
Cable Diameter	3mm	
Strand No./Dia.	14/0.32mm	
Conductor Cross Section Area	1.13mm ²	
Length	30m	

Single Core Automotive Cable
- 4mm



8810	8KL 905 541-091	■ BLACK
8811	8KL 905 541-101	■ RED
8812	8KL 905 541-111	■ GREEN
8813	8KL 905 541-121	■ YELLOW
8814	8KL 905 541-131	■ BLUE
8815	8KL 905 541-141	■ ORANGE
8816	8KL 905 541-151	■ VIOLET
8817	8KL 905 541-161	■ WHITE
8818	8KL 905 541-171	■ BROWN
Cable Diameter	4mm	
Strand No./Dia.	23/0.32mm	
Conductor Cross Section Area	1.84mm ²	
Length	30m	

Single Core Automotive Cable - 5mm

8820	8KL 905 541-181	■ BLACK
8821	8KL 905 541-191	■ RED
8822	8KL 905 541-201	■ GREEN
8823	8KL 905 541-211	■ YELLOW



Cable Diameter	5mm
Strand No./Dia.	36/0.32mm
Conductor Cross Section Area	2.90mm ²
Length	30m

Single Core Automotive Cable - 6mm

8825	8KL 905 541-221	■ BLACK
8826	8KL 905 541-231	■ RED



Cable Diameter	6mm
Strand No./Dia.	57/0.32mm
Conductor Cross Section Area	4.59mm ²
Length	30m

Single Core Automotive Cable - Double Insulated

8850	8KL 905 547-001	4MM CABLE
8851	8KL 905 547-011	6MM CABLE



Strand No./Dia.	8850 - 23/0.32mm	8851 - 57/0.32mm
Conductor Cross Section Area	8850 - 1.84mm ²	8851 - 4.59mm ²
Length	30m	

2 Core Figure 8 Cable



	8840 8KL 905 544-001	8845 8KL 905 544-011
Cable Diameter	3mm	4mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm
Conductor Cross Section Area	1.13mm ²	1.84mm ²
Length	30m	30m

2 Core Sheathed Cable



	8846 8KL 905 546-001	8847 8KL 905 546-011	8848 8KL 905 546-021	8849 8KL 905 546-031
Cable Diameter	3mm	4mm	5mm	6mm
Strand No./Dia.	2 x 14/0.32mm	2 x 23/0.32mm	2 x 36/0.32mm	2 x 57/0.32mm
Conductor Cross Section Area	1.13mm ²	1.84mm ²	2.90mm ²	4.59mm ²
Length	30m			

5 Core Cable



8832	8KL 905 542-001
Cable Diameter	2.5mm
Strand No./Dia.	5 x 8/0.32mm
Conductor Cross Section Area	0.64mm ²
Length	30m

7 Core Cable



8833	8KL 905 542-011
Cable Diameter	2.5mm
Strand No./Dia.	7 x 8/0.32mm
Conductor Cross Section Area	0.64mm ²
Length	30m





HELLA Workshop

HELLA offers a comprehensive range of high quality inspection lamps and testing equipment that is designed to meet the needs of discerning do-it-yourself and professional technicians.





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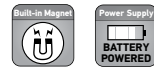
HELLA LED Inspection Lamps have been designed with the workshop in mind.

With high power efficient LEDs providing evenly spread natural light; a range of styles designed for a variety of situations; and construction to last – HELLA Inspection Lamps will become your most valued workplace tool.

- High power LEDs.
- Easy to use.
- Impact and shock resistant.
- Natural light – colour similar to daylight.
- Low current consumption, high efficacy.
- Strong, sturdy and resistant to water, oil and chemicals.



LED Inspection Lamp - Unipen Gen II



Unipen has a powerful and completely uniform illumination which is ideal for a working light. Furthermore Unipen has a high power LED top light that gives Unipen a powerful flashlight function. Unipen's flexible lamp head tilts up to 180 degrees. Unipen is supplied with a strong built-in magnet for easy positioning in the workspace and a pocket clip. The small and handy shape of the Unipen makes it perfect to always have "on hand".

2XM 910 602-011		
Light Output	Main: Stage 1: 75 lumen Stage 2: 150 lumen	Spot: 75 lumen
Light Performance	Main: Stage 1: 125 lux @ 0.5m Stage 2: 250 lux @ 0.5m	Spot: 900 lux @ 0.5m
Temperature Range	-10° to +40°C	
Ingress Protection	IP 65	
Dimensions	156 mm x 27 mm x 18 mm	
Battery	3.7V/750 mAh Li-ion	
Charging Time	2.5 hours	
Operating Time	Main: Stage 1: 4 hours Stage 2: 2 hours	Spot: 2 hours
Compliance		
Includes 1m USB cable		
Spare Part	2XM 910 529-141	1m USB Cable



Strong built-in magnet



180° flexible head



Top spot light



1m USB cable
2XM 910 529-141.
Also compatible with other LED Inspection Lamps listed: Slim/Mini Slim/I-View/MiniForm/MiniMag/Mag 3/Uniform Gen III/UV Form/Uni Max/NOVA R



Adjustable lamp



Hook for hanging



Magnetic mounting



2XM 910 414-011

Light Output	Main: Stage 1: 250 lumen Stage 2: 500 lumen	Spot: 100 lumen
Light Performance	Main: Stage 1: 400 lux @ 0.5m Stage 2: 800 lux @ 0.5m	Spot: 4800 lux @ 0.5m
Temperature Range	-10° to +40°C	
Ingress Protection	IP 30	
Dimensions	310 mm x 45 mm x 33 mm	
Battery	3.8V/2800 mAh Li-ion	
Charging Time	4.5 hours	
Operating Time	Main: Stage 1: 5 hours Stage 2: 2.5 hours	Spot: 5 hours
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable



3-in-1: LED Inspection Light, Work Light and Flashlight.



1m USB cable
P/N 2XM 910 529-141

240V charger

LED Inspection Lamp - Slim

Slim LED inspection lamp is not only one of the most compact on the market, but it also offers 3 lamps in 1, with two brightness settings for ultimate versatility. When open, the lamp is an ideal inspection light, perfect for getting into the most inaccessible locations. Folded in half, the lamp can be used as a traditional hand-held work light. When required the inspection lamp can also be used as a powerful flashlight with a handy, comfortable grip. In the folded state, the lamp is reduced to pocket size - compact and portable to take with you everywhere.



LED Inspection Lamp - Mini Slim

Mini Slim LED inspection lamp is not only one of the most compact on the market, but also offers 3 lamps in 1, with two brightness settings for ultimate versatility. When open, the lamp is an ideal inspection light, perfect for getting into the most inaccessible locations. Folded in half, the lamp can be used as a traditional hand-held work light. When required the inspection lamp can also be used as a powerful flashlight with a handy, comfortable grip. In the folded state, the lamp is reduced to pocket size - compact and portable to take with you everywhere.



Adjustable lamp



Hook for hanging



Magnetic mounting



2XM 910 414-021

Light Output	Main: Stage 1: 100 lumen Stage 2: 200 lumen	Spot: 100 lumen
Light Performance	Main: Stage 1: 150 lux @ 0.5m Stage 2: 400 lux @ 0.5m	Spot: 5200 lux @ 0.5m
Temperature Range	-10° to +40°C	
Ingress Protection	IP 30	
Dimensions	242 mm x 41 mm x 30 mm	
Battery	3.7V/1200 mAh Li-ion	
Charging Time	3 hours	
Operating Time	Main: Stage 1: 1.5 hours Stage 2: 2.5 hours	Spot: 3 hours
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable

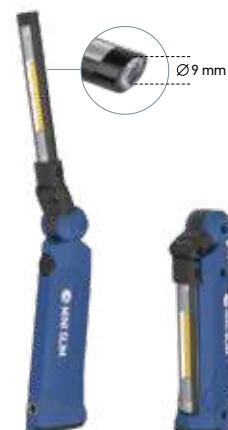


3-in-1: LED Inspection Light, Work Light and Flashlight.



1m USB cable
P/N 2XM 910 529-141

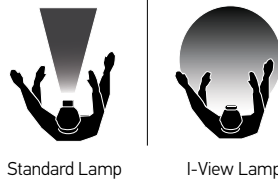
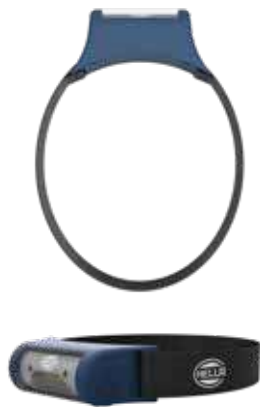
240V charger



LED Inspection Lamp - I-View

The I-VIEW lights up the entire work space and not just the area the lamp is pointed at, the inspection lamp is designed for professional end users. Once the sensor setting is activated the lamp may be turned on and off by simply waving your hand in front of the lamp - even when wearing gloves.

The lightweight ergonomically designed inspection headlamp features a light output of 250 lumen on the high and 125 lumen on the low setting. By using the latest battery technology, there is simply no need for extra battery supplies, making your job more efficient.



2XM 910 601-001		
Light Output	Main: Stage 1: 125 lumen Stage 2: 250 lumen	
Light Performance	Main: Stage 1: 400 lux @ 0.5m Stage 2: 600 lux @ 0.5m	
Temperature Range	-10° to +40°C	
Ingress Protection	IP 65	
Dimensions	105 mm x 52 mm x 43 mm	
Battery	3.8V/1600 mAh Li-ion	
Charging Time	3 hours	
Operating Time	Main: Stage 1: 6 hours Stage 2: 3 hours	
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable



Touchless sensor switch on/off technology



1m USB cable
P/N 2XM 910 529-141

240V charger

LED Inspection Lamp - Miniform

Multifunctional pocket sized rechargeable LED inspection lamp. Features a strong magnetic base, retractable swivel hook and a flexible 180° head for powerful uniform lighting at any angle. Complete with 240V charger.



Retractable swivel hook

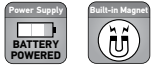


2XM 910 415-001		
Light Output	Main: Stage 1: 55 lumen Stage 2: 125 lumen	
Light Performance	Main: Stage 1: 130 lux @ 0.5m Stage 2: 260 lux @ 0.5m	
Temperature Range	-10° to +40°C	
Ingress Protection	IP 65	
Dimensions	120 mm x 60 mm x 25 mm	
Battery	3.7V/1000 mAh Li-ion	
Charging Time	2.5 hours	
Operating Time	Main: Stage 1: 5 hours Stage 2: 2.5 hours	
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable



1m USB cable
P/N 2XM 910 529-141

240V charger

**2XM 910 413 -021**

Light Output	Main: 150 lumen	Spot: 75 lumen
Light Performance	Main: 300 lux @ 0.5m	Spot: 1000 lux @ 0.5m
Temperature Range	-10° to +40°C	
Ingress Protection	IP 20	
Dimensions	202 mm x 40 mm x 28 mm	
Battery	3.7V/1200 mAh Li-ion	
Charging Time	3 hours	
Operating Time	Main: 4 hours	Spot: 4 hours
Compliance		
Includes 1m USB cable		
Spare Part	2XM 910 529-141	1m USB Cable



1m USB cable
P/N 2XM 910 529-141



Top spot light



Retractable hook and
strong built-in magnet



180° Flexible Head



LED Inspection Lamp - Mini Mag

The Mini Mag comprises an extremely powerful, rechargeable LED work light and flashlight in one. Containing the latest high performance LED technology this inspection lamp is a must have. The new and modern design of the Mini Mag provides an ergonomic and user-friendly grip. The strong built-in magnetic holder and retractable suspension hook allows you to place the Mini Mag anywhere. The 180° flexible lamp head makes lighting those hard to see areas a lot easier.

**2XM 910 413-011**

Light Output	Main: 300 lumen	Spot: 150 lumen
Light Performance	Main: 650 lux @ 0.5m	Spot: 4800 lux @ 0.5m
Temperature Range	-10° to +40°C	
Ingress Protection	IP 20	
Dimensions	270 mm x 62 mm x 41 mm	
Battery	3.7V/2200 mAh Li-ion	
Charging Time	3.5 hours	
Operating Time	Main: 3 hours	Spot: 3 hours
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable



1m USB cable
P/N 2XM 910 529-141

240V charger



Top spot light



Retractable hook and
strong built-in magnet



180° Flexible Head



LED Inspection Lamp - Mag 3 Gen II

High power rechargeable LED inspection lamp and torch. Features 3 strong magnets, 2 swivel hooks, and a 180° flexible head for powerful lighting at any angle. Complete with 240V charger.

**LED Inspection Lamp
- Uniform Gen III**

Rechargeable LED inspection lamp featuring rubber housing, intelligent battery indicator, swivel hook and magnetic-based charging unit. Delivers a powerful and uniform light output. Complete with 240V charger.



2XM 910 412-011

Light Output	Main: Stage 1: 250 lumen Stage 2: 500 lumen	Spot: 170 lumen
Light Performance	Main: Stage 1: 475 lux @ 0.5m Stage 2: 950 lux @ 0.5m	Spot: 6000 lux @ 0.5m
Temperature Range	-10° to +40°C	
Ingress Protection	IP 65	
Dimensions	190 mm x 60 mm x 32 mm	
Battery	3.7V/3000 mAh Li-ion	
Charging Time	5 hours	
Operating Time	Main: Stage 1: 6 hours Stage 2: 3 hours	Spot: 3 hours
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable



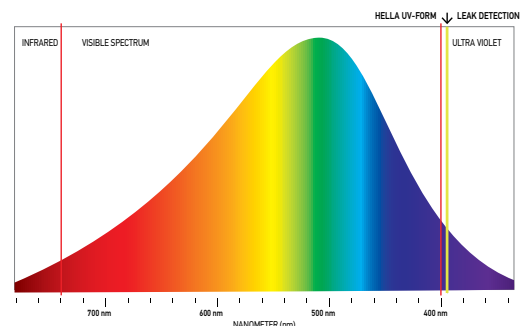
LED UV-Form

The rechargeable LED UV-Form is a universal indispensable work light and UV detection in one, with powerful 1.5W UV-light on the top it is a suitable replacement for special UV detection lights. The ultraviolet light is intended for leak detection in air-conditioning systems by means of trace elements. Also useful for leak detection of larger, complex refrigeration/ freezing appliances, process-cooling systems, heat pump systems etc.



2XM 910 606-001

Light Output	Main: 150 lumen	Spot: UV
Light Performance	Main: 340 lux @ 0.5m	Spot : UV
Temperature Range	-10° to +40°C	
Ingress Protection	IP 20	
Dimensions	157 mm x 59 mm x 23 mm	
Battery	3.7V/1600 mAh Li-ion	
Charging Time	3 hours	
Operating Time	Main: Stage 1: 3 hours	Spot: 3 hours
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable
Safety Note	Do not operate UV light without wearing eye protection	



LED Work Lamp - Uni Max

A new cost effective rechargeable LED universal flood lamp that is small in size, but large in features and light output. The lamp is remarkably slim (only 41mm), with a maximum light output of 900lm and a 50% setting of 450lm for longer battery charge run time. An extremely useful feature is Uni Max's built-in power bank with USB outlet to charge your mobile devices. Uni Max is suitable for many applications including camping, boating on the worksite or left in the toolbox for when you really need a dependable flood light.



2XM 910 605-001		
Light Output	Stage 1: 450 lumen Stage 2: 900 lumen	
Light Performance	Stage 1: 650 lux @ 0.5m Stage 2: 1300 lux @ 0.5m	
Temperature Range	-10° to +40°C	
Ingress Protection	IP 54	
Dimensions	196 mm x 187 mm x 43 mm	
Battery	3.7V/4400 mAh Li-ion	
Charging Time	6 hours	
Operating Time	Main: Stage 1: 5 hours Stage 2: 2.5 hours	
Compliance		
Includes 1m USB cable and 240V charger.		
Spare Part	2XM 910 529-141	1m USB Cable



The Uni Max features an adjustable stand that can rotate 180° so the lamp can be placed in different positions to obtain the desired light angle.



Built-in power bank with USB outlet to charge your mobile devices. USB phone charger not included.



1m USB cable
P/N 2XM 910 529-141



240V charger



Uni Max can also be wall hung via the hole in the stand

Dimmable:
Internal Dimmer

2XM 910 426-131			
Light Output	Stage 1: 1500 lumen Stage 2: 1125 lumen	Stage 3: 750 lumen Stage 4: 375 lumen	Stage 5: 150 lumen
Light Performance	2000 lux @ 0.5m		
Temperature Range	-10° to +40°C		
Ingress Protection	IP 67		
Dimensions	163 mm x 63 mm x 163 mm		
Battery	3.6V/6000 mAh Li-ion		
Charging Time	3.5 hours		
Operating Time	1 - 10 hours (Depending on output level)		
Compliance			
Includes 1m USB cable and 240V charger.			
Spare Part	2XM 910 529-141	1m USB Cable	



1m USB cable
P/N 2XM 910 529-141



240V charger



Handy USB Power Bank for charging devices (phone and phone cable not included)

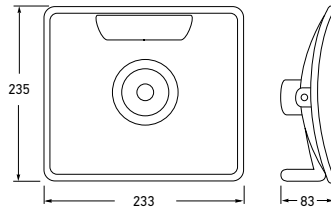


NOVA R Compact LED Work lamp for the professional user

The ultra-slim and compact NOVA R is a rechargeable work lamp featuring the latest COB LED technology which delivers extremely high light output (up to 1500 lumen) with a uniform and even illumination. Light output can be adjusted using the built-in light dimmer with five brightness levels. The stand is equipped with powerful integrated magnets for easy mounting onto metal surfaces and is designed to be mounted on the already available NOVA Tripod and Scaffolding Bracket.

LED Work Lamp - NOVA 3K C+R

The NOVA 3K C+R is a universal all-round work lamp, and can operate either on batteries or 240V input (DUAL SYSTEM) providing you endless application possibilities and able to endure the rough, wet and dirty environments, and can be used indoors or outdoors under all kinds of weather conditions. The new light dimmer function makes it possible to adjust the light to five different light levels. Featuring the latest LED technology, the new NOVA LED work lamps deliver extremely high light output, with a uniform and completely even illumination. An intelligent display for battery capacity and remaining operating time is available on the rear of the lamp. The CRI value is close to daylight, and the NOVA housing is made of robust die cast aluminium, and is resistant to shocks and vibration.



2XM 910 426-101			
Light Output	Stage 1: 3000 lumen Stage 2: 2250 lumen	Stage 3: 1500 lumen Stage 4: 750 lumen	Stage 5: 300 lumen
Light Performance	5000 lux @ 0.5m		
Temperature Range	-10° to +40°C		
Ingress Protection	IP 67		
Dimensions	235 mm x 88 mm x 233 mm		
Battery	11.1V/4400 mAh Li-ion		
Charging Time	2 hours		
Operating Time	1 - 14 hours (Depending on output level)		
Compliance			
Power Consumption	26W		
Charger	Input: 100-240V AC / 50-60 Hz 0.8A 5m Charging cable included	Output: 12.6V DC / 2.4A Cable (2x0.75 mm ² H05RN-F)	
Spare Part	2XM 910 529-081 2XM 910 529-131	In car charging cable (C + R Car adaptor) 240V Charging cable	



C + R car adaptor
P/N 2XM 910 529-081

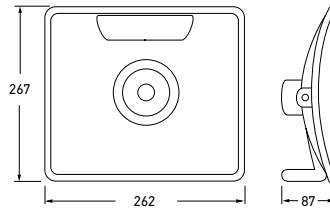
Rear view

NOVA 3K C+R Kit with Bag

This kit consist of NOVA 3K C+R rechargeable lamp, MiniMAG, Adapter cable for charging NOVA lamp in the vehicle and the stylish HELLA carry bag.



2XM 013 986-001		
Net Weight:	0.910 Kg	
Dimensions	170 mm x 105 mm x 60 mm	
Also sold separately	NOVA 3K C+R:	2XM910426101
	C+R Car Adapter:	2XM910529081
	MINI MAG:	2XM910413021
	HELLA Carry bag:	2XM013995001



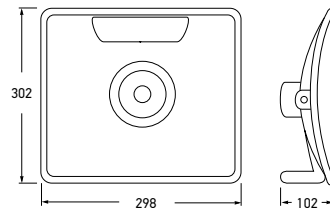
LED Work Lamp - NOVA 5K C+R

The NOVA 5K C+R is a universal all-round work lamp, and can operate either on batteries or 240V input (DUAL SYSTEM) providing you endless application possibilities and able to endure the rough, wet and dirty environments, and can be used indoors or outdoors under all kinds of weather conditions. The new light dimmer function makes it possible to adjust the light to five different light levels. Featuring the latest LED technology, the new NOVA LED work lamps deliver extremely high light output, with a uniform and completely even illumination. An intelligent display for battery capacity and remaining operating time is available on the rear of the lamp. The CRI value is close to daylight, and the NOVA housing is made of robust die cast aluminium, and is resistant to shocks and vibration.

2XM 910 426-111			
Light Output	Stage 1: 5000 lumen Stage 2: 3750 lumen	Stage 3: 2500 lumen Stage 4: 1250 lumen	Stage 5: 500 lumen
Light Performance	8000 lux @ 0.5m		
Temperature Range	-10° to +40°C		
Ingress Protection	IP 67		
Dimensions	267 mm x 87 mm x 262 mm		
Battery	11.1V/5200 mAh Li-ion		
Charging Time	2 hours		
Operating Time	1 - 12 hours (Depending on output level)		
Compliance			
Power Consumption	42W		
Charger	Input: 100-240V AC / 50-60 Hz 0.8A 5m Charging cable included	Output: 12.6V DC /4.3A Cable (2x0.75 mm² H05RN-F)	
Spare Part	2XM 910 529-081 2XM 910 529-151	In car charging cable (C + R Car adaptor) 240V Charging cable	



C + R car adaptor P/N 2XM 910 529-081 Rear view



LED Work Lamp - NOVA 10K

NOVA 10K is the most powerful workshop lamp in the market, upholding 10000 lumen and making it a universal all-round work lamp for the most challenging lighting operations in every working environment. Able to endure the rough, wet and dirty environment at the construction site, and can be used indoors and for outdoor work under all kinds of weather conditions. The new light dimmer function makes it possible to adjust the light into five different levels.

2XM 910 426-121			
Light Output	Stage 1: 10000 lumen Stage 2: 7500 lumen	Stage 3: 5000 lumen Stage 4: 2500 lumen	Stage 5: 1000 lumen
Light Performance	16000 lux @ 0.5m		
Temperature Range	-10° to +40°C		
Ingress Protection	IP 67		
Dimensions	304 mm x 103 mm x 300 mm		
Compliance			
Power Consumption	84W		
Cable Length	Pre-wired with 5m of cable (3x1 mm² H05RN-F)		

Includes wireless light control: *via App on smart devices.

Integrated Wireless Lamp Control (via Bluetooth) – for NOVA 10K

You can control the NOVA 10K lamp with your iOS and/or android compatible mobile device. The wireless application is perfect when working with one or more hard-to-reach lamps, for example positioned on the HELLA Tripod.

With the integrated wireless lamp control feature you can:

- Turn on/off the lamp
- Adjust the light output of the lamp in five different stages.
- Easily control up to four work lamps at same time

Download the "HELLA NOVA 10K" control app through iOS App store and Google Play. This app is compliant with iPhone 4S / Android 4.3 or higher.



Rear view

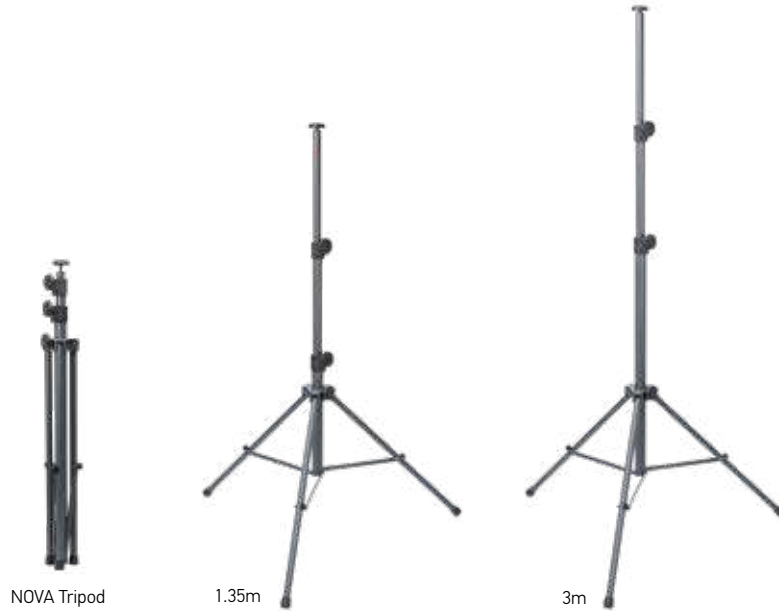
NOVA Tripod

The HELLA NOVA Tripod is designed to meet any working situation where flexible illumination is key. Extendable from 1.35m to 3m, the tripod offers complete flexibility to position the work lamp into the required height and angle.

The tripod is made of durable powder coated steel and a welded steel mounting cap (10mm thread) ensures the durability of the universal tripod stand. When not in use the tripod is compact with a weight of 6kg.

Streamlined in both design and construction, the HELLA Tripod can be applied for both indoor and outdoor use. To increase safety when in use, work lamp cables can be stored in the safety clips placed on each of the tripods legs. This tripod fits all NOVA work lamps.

2XM 910 529-101		
Weight	6kg	
Dimensions	1080 mm x 140 mm x 130 mm	
Spare Parts	2XM 910 529-111 2XM 910 529-121	Top-Knob of Tripod Side-Knob of Tripod



Top-Knob of Tripod
P/N 2XM 910 529-111

Side-Knob of Tripod
P/N 2XM 910 529-121



360° locking system for a firm grip

Cable Clip to safely secure cables

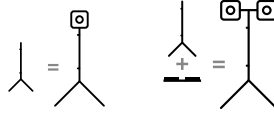
2XM 910 529-051 (Dual Bracket)

Dimensions 25 mm x 25 mm x 600 mm



Dual Bracket

Single and Dual tripod configurations



Dual Bracket

The Dual bracket is made for positioning of two lamps. The bracket is compatible with the new and previous generations of NOVA lamps.



2XM 910 529-091 (Universal NOVA Bracket)

Universal NOVA Bracket

This universal bracket is designed to mount all sizes of previous generation NOVA lamps on to the new tripod.



2XM 910 529-061 (Magnetic Mount)

Dimensions 260 mm x 60 mm x 50 mm

Magnetic Mounting Bracket

The Magnetic Mounting Bracket is specially designed to fix NOVA lamps onto metal surfaces. The mount has two super powerful rubber cased magnets, with a holding force of more than 10kg each. The mount is made of laser cut high strength steel with a powder coating. The unique quick release pin ensures fast and secure installation. The lamp can be tilted to the desired angle in the mount. This bracket is only compatible with the new generation of NOVA lamps.



Magnetic Mount

2XM 910 529-071 (Scaffolding Bracket)

Dimensions 170 mm x 105 mm x 60 mm

Scaffolding Mounting Bracket

This bracket is specially designed to fix NOVA lamps on scaffoldings. The mount can be attached to any round object ø40-50 mm. This bracket is of same sturdy quality as standard fittings for scaffolding. The lamp can be tilted to the desired position in the mount and the installation is extremely flexible. This bracket is only compatible with the new generation of NOVA lamps.



LED Flash Pen R

The Flash Pen R is very sturdy and of extraordinary high quality designed for the professional user. It has focus function for concentrated and focused light beam offering an extremely bright light output of 100 lumen. Light output reaches up to 90m. Flash Pen R features a sturdy and durable aluminium housing with a good ergonomic grip for a firm hold. Supplied with clip for the chest pocket. The flashlight can easily be recharged by the enclosed USB cable.



2XM 910 416-011		
Light Output	100 lumen	
Light Performance	500-800 lux @ 0.5m. (Depending on beam focus)	
Temperature Range	-10° to +40°C	
Protection	IP 30	
Dimensions	Ø18.8 mm x 160 mm	
Battery	3.7V/1100 mAh Li-ion	
Charging Time	4 hours	
Operating Time	2 hours	
Compliance		
Includes 1m USB cable		
Spare Part	2XM 910 529-141	1m USB Cable



1m USB cable
P/N 2XM 910 529-141



Adjustable Beam Focus and charging point



Clip for chest pocket

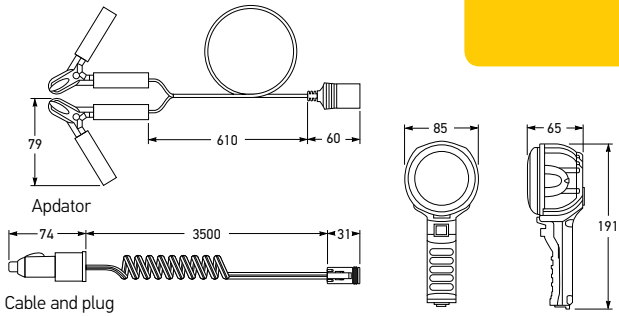
LED Pocket Sized Flashlight

The small LED Flashlight is compact and designed to have in the pocket and always at hand when needed. The flashlight is easily charged on the fly, you just plug it directly into the DC Power socket in your car, without the need of charger device, cable, or batteries! The LED Flashlight provides an extremely bright light output of 130 lumen, and the light output reaches up to 100m. By means of the focus function you can vary the beam angle from 10° to 70°, from concentrated and focused light beam angle to long-distance light.



2XM 910 603-001	
Light Output	>130 lumen
Light Performance	>900-8000 lux @ 0.5m. (Depending on beam focus)
Temperature Range	-10° to +40°C
Protection	IP 30
Dimensions	Ø30 mm x 105 mm
Battery	3.7V/550 mAh Li-ion
Charging Time	2 hours
Operating Time	1 hour
Compliance	
No cable needed for charging	
Recharging using power socket (10-28V DC) of vehicle	





1520LED	2XM 958 372-001	LONG RANGE
1521LED	2XM 958 373-001	MEDIUM RANGE
Voltage	10-16V DC	
Power Consumption	35W	
Light Output	1350 lumen	
Compliance		

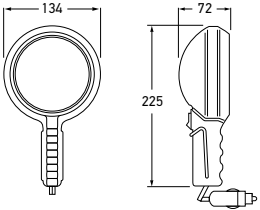
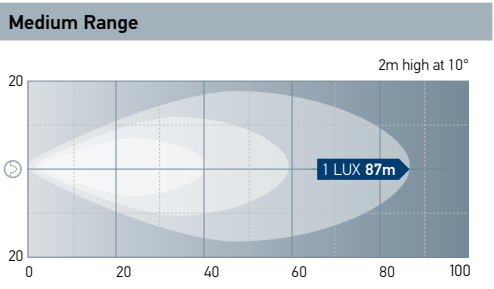
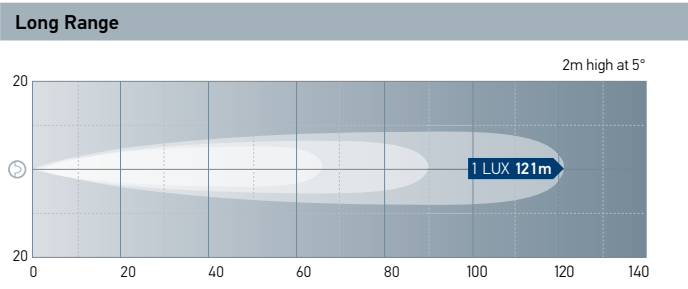
LED Hand Held Spot Lamps

The new LED hand held spot lamp only uses 1/3 of the power consumption of the 1520. It has a compact size and light weight, and is comfortable to hold even for long periods. The LED spot lamp comes with a spiral plug-in cable (which can stretch up to 3.5m) and a DT connector, which allows a custom cable to be fitted to suit your own requirements.



Battery clips to power socket adaptor (Supplied)

HELLA Bag (Supplied)



Hand Held Spot Lamps

Blue (P/N 1520) hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and on-off switch. Black (P/N 1524) hand held long range spot lamp range. Includes plug, spiral cable (extendable to 2m) and momentary pressure contact on-off switch.

LONG RANGE HAND HELD SPOT LAMP		
1520	2XM 905 113-001 – (On-Off Switch)	BLUE
1524	2XM 910 343-001 – (On-Off Momentary Switch)	BLACK
Voltage	12V sealed beam included.	
Power Consumption	100W	
Spare Parts	1089 (IM4 905 805-001) 9.1520.06 (6EH 905 808-001) 9.1524.06 (IM4 910 333-002) 9.1520.07 (8KA 951 191-001)	Sealed beam Switch - on-off Switch - momentary Plug and 2m extendable sheathed cable



P/N 9.1520.07

P/N 9.1524.06

P/N 9.1520.06

Circuit Tester

Circuit Tester for quick fault tracing in vehicle electrical systems. Sturdy metal construction with screw-off cap and testing needle.



7013	8PD 003 798-001
Globe to Suit	24V – M243 (8GM 002 094-242)
Suits	6, 12 and 24V applications

Timing Light/Analyser

Timing Light/Analyser for all 4, 5, 6 and 8-cylinder engines with stroboscope, dwell-angle meter, rev-counter and voltmeter with voltage tester (0-16V). Enables adjustment timing whilst simultaneously measuring the engine speed. Features corrosion and impact resistant housing and inductive clamp. Suitable for 12V DC electrical systems with standard or transistorised ignition.



7022	8PD 004 834-001	12 VOLT
Voltage	0-16V DC	
Dwell	4 cyl - 30°-90°	6 cyl - 0°-60° 8 cyl - Use 4 cyl x 0.5
RPM	4 cyl - 0-2400	6 cyl - 0-1600 8 cyl - Use 4 cyl x 0.5
Timing	Ignition timing and advance function.	
Spare Parts	9.7023.01 (8PD 950 881-021) 9.7022.02 (8PD 905 666-001)	Xenon Flash Tube ① Inductive Clamp ②



Timing Light

Timing Light with stroboscope for precise timing adjustment of all petrol engines. Features corrosion and impact resistant housing and inductive clamp.



7023	8PD 004 835-001	12 VOLT
Spare Parts	9.7023.01 (8PD 950 881-021) 9.7022.02 (8PD 950 881-021)	Xenon Flash Tube ① Inductive Clamp ②



7026	8PD 004 838-001
Test Range	0-21 bar (0-300psi)

Compression Tester

For spark-plug holes of either 14 or 18mm diameter. Diagnosing different cylinder compression values early enough prevents possible later engine damage.



7036	8PD 006 541-001
Measuring Tolerance	Less than +/-1%

Battery Acid Tester

Handy and robust instrument for professional measurement of the battery charge and acid density in lead batteries. A new suction system design prevents bubbles from forming and keeps the liquid to be tested from flowing back. The precision measuring unit can be rotated 360° allowing measurement regardless of the position of the unit.



7037	8PD 006 542-001
Measuring Tolerance	Less than +/-1%.
Does not measure Glycol concentration. Measures freezing point depression of Glycol-based coolant.	

Anti-Freeze Tester

Professional Tester for measuring the freezing point of the water in automobile cooling systems. The new suction system design prevents bubbles from forming and keeps water from flowing back.



Tyre Pressure Gauge – Chrome

Tough all-metal chrome-plated housing, with pressure-release valve. Easy-to-read scale in bars and psi. Supplied with sturdy protective case.

7039	8PD 006 535-001
Test Range	0-4 bars (0-56psi)



Hour Meter

Visual mechanism to indicate operation. Quick and easy to mount with attached metal bracket. Suitable for 12V to 60V DC (24MA).

7050	8ET 950 833-001
Face Diameter	60mm
Mounting	52mm dia. opening





HELLA BEAMSETTER

The HELLA Headlamp Aimer is a precision workshop instrument designed to accurately check vehicle headlamps. It was developed especially for use in professional workshops and vehicle testing stations.

Precision Headlamp Adjustment. The importance of regular checking and re-adjustment of headlamps emerges clearly from the fact that about 33% of all vehicles coming in for this service have incorrectly adjusted headlamps. In about half these cases the headlamp beams are too high and dazzle oncoming traffic, while in the remaining cases the headlamps are too low or point left or right, reducing the driver's field of vision and driving safety.

The HELLA Headlamp Aimer provides high accuracy in lighting checks and is also able to test the latest in new technology headlamps. The beamsetter box, the heart of the unit, is constructed of impact and corrosion resistant material that withstands even aggressive fluids used in workshops.

Its functional design allows quick, precise and simple headlamp adjustment. Precision workshop instrument with wide-band sight aligner for quick and precise checking and setting of headlamps, auxiliary driving and fog lamps on all vehicles. Unit features sturdy base, large viewing screen and a combination volt and light output meter. Easy height adjustment.

Features include:

- Wide band sight aligner.
- Combination volt and light output meter.
- Sturdy base.
- Large viewing screen.
- Easy height adjustment.
- Spare parts availability.

SEG 700L

8PA 007 732-011 – Standard Beamsetter with digital voltage and lux readings.

Digital indication of illuminance.





Automotive Globes

HELLA's automotive globes are renowned for their uncompromising adherence to the highest quality and safety standards.





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SUPERIOR ILLUMINATION

HELLA offers the most comprehensive range of automotive globes to suit almost any function, from passenger vehicle to heavy duty applications. The range includes incandescent, halogen and HID globes.



At HELLA, we have been designing, developing and manufacturing automotive lighting solutions since the motor car was first produced. HELLA automotive globes are renowned for their uncompromising adherence to the highest quality and safety standards. There's a HELLA globe to suit almost every requirement.

Incandescent Globes

Incandescent globes produce light when an electric current passes through a thin filament, heating it and causing it to emit light. Incandescent globes become progressively dimmer over the course of their service life; heating the filament results in its erosion, vapour from this erosion condenses on the cooler glass and reduces transmission through the glass casing.

Halogen Globes

Halogen globes contain a gas mixture which consists of halogen compounds (usually compounds of iodine or bromine). Much like the incandescent globe, light is produced by passing a current through a tungsten filament, heating it which causes it to emit light. When particles burn off the filament, they are returned by a chemical process assisted by the halogen in the globe. This results in a relatively consistent brightness over the course of the globe's service life. Halogen globes are approximately 50% more efficient than an incandescent globe.

Xenon Gas Discharge Globes

Xenon globes produce light when an electric arc is ignited between two electrodes and subsequently passes through xenon gas. This technology is significantly more energy efficient than the incandescent or the halogen globe. The colour temperature emitted is comparable to daylight. As the human eye has evolved to see in daylight, xenon lighting causes less eye strain than other globe types, making it a more convenient and safer night lighting option. Xenon based forward lighting further assists safe driving at night by increasing the reflections of road signs and markings.

Advantages of Xenon Lighting

- Over twice the light output compared to standard halogen globes.
- 77% less power consumption than standard halogen globes.
- Light colour very similar to daylight – reduces strain on the eye.
- Steady brightness levels even if power supply varies.
- Impact and vibration resistant light arc ensures a globe service life five times longer than standard globes.

Maximising Globe Life

To maximise the operational life of an automotive globe there are some important points to consider.

Rule of Thumb:

- 5% overvoltage halves the globe life.
- Headlamp globes are rated at 13.2 volts. Signal and marker globes are rated at 13.5 volts.
- The light output of a tungsten filament light source is dependent on voltage.
- Low voltage causes low output and lower operational life of halogen globes as regeneration does not occur.
- Overvoltage causes excessive tungsten erosion and significantly shortens globe life.



Plus100 LongLife (24 Volt)

Plus100 LongLife globes are a new generation of high-performance halogen globes specifically designed to cope with the heavy duty demands of 24 volt heavy commercial transport applications.

Utilising innovative single-coil filaments, Plus100 LongLife halogen globes offer significantly increased service life of up to 100% when compared to standard halogen globes. They also feature superior vibration resistance during extended periods of operation, leading to reduced vehicle servicing costs and downtime.

In addition to extended service life and improved durability, Plus100 LongLife halogen globes provide up to 100% increased illumination of the road ahead when compared to a standard halogen globe. This results in improved vision and clearer visibility of objects and traffic situations in the distance ahead, effectively reducing eyestrain and driver fatigue, adding valuable seconds to driver reaction times for improved night driving safety.

Safe for Modern Headlamps

All halogen globe filaments produce UV radiation. If the glass casing of the globe does not filter the UV radiation it will be harmful to the polycarbonate lenses used on most of today's vehicles.

Excessive UV radiation from the halogen or HID globe will result in discolouration and substantially diminished light transmission of the headlamp lens. All HELLA halogen and HID automotive globes are UV-reduced and are safe for use in modern headlamps with polycarbonate lenses.

Replacement Globes

All ADR certified lamps must be fitted with an ADR approved light source to remain legal, if the light source is replaced.

Most HELLA globes will be marked with an 'E mark' to show compliance. Some globes, to suit older vehicles or imports not originally destined for our market, may have different standards such as JIS (Japanese Industrial Standard). HELLA shows compliant globes under the category column in the globe section

LED Replacement Globes

LED replacement globes are generally illegal for use in marker, signal and headlights as they do not come with a compliance marking.

LIGHT OUTPUT	
Operating Voltage %	Light Output %
85	53
90	67
95	83
100	100

Based on a mean operating voltage of 100% = 13.5V or 28V.

As the operating voltage drops, so does the light output. If voltage drops from 13.5V to 12.8V (-5%) then light output drops to 83%.

Hours of testing ensures a quality product HELLA is renowned for.



XENON GAS DISCHARGE LAMPS

Xenon based front lighting systems are among the best lighting systems available in terms of both quality and quantity.



The Xenon gas discharge, or high intensity discharge (HID) globe illuminates via a light arc that is ignited between two electrodes. This technology requires a complex electronic ballast.

To optimise and maintain a safe lighting system, additional system features are often required e.g. headlamp cleaning systems, automatic headlight range adjustment and levelling systems for ECE type approved systems.

Advantages of Xenon Light Compared to Halogen Globes:

- Over twice the luminous flux (light quantity/light power).
- Superior lamp performance (photometric efficiency).
- Significantly lower power consumption of only 35W (plus 7W for ballast).
- Lower thermal load on the system.
- Considerably longer service life.
- Light colour is closer to daylight.

Additional Regulations for Xenon Low Beam

In the ECE region, headlights with Xenon low beams may only be used in conjunction with automatic or dynamic headlight range adjustment and levelling system as well as a headlight cleaning system. This regulation takes into account the intense luminous performance of the Xenon globe and is designed to ensure the safety of all road users.

How They Work

A sophisticated ballast supplies the ignition voltage required to ignite the gas between two electrodes. This ignition voltage can be up to 30kV in 4th generation ballasts. Inside the globe is a mixture of inert Xenon gas, metals and metal halides, which are ionised upon ignition resulting in a powerful light arc.

During the controlled supply of alternating current (at approx. 400Hz) the liquid and solid substances evaporate, due to high internal temperatures. The lamp only achieves its full brightness after a few seconds when all the components have been ionised. To prevent destruction of the lamp through uncontrolled increases in current, the current is limited by a ballast. Once the full light output has been reached, an operating voltage (not the ignition voltage) of only 85V is necessary to maintain the physical process. The luminous flux, light output, luminance and service life of Xenon HID globes significantly surpasses halogen globes.



P/N XN4000



P/N XN4001

Fault Diagnosis

Check whether the ballast is attempting to ignite the globe after the light has been switched on. Ignition attempts can be heard clearly near the headlight.

If ignition attempts are unsuccessful, the xenon globe should be checked by swapping it with one from the other headlight and the process tried again. If no ignition attempt is carried out, the fuse should be checked.

If the fuse is functional, check the voltage and ground supply directly at the ballast. Voltage must be at least 9V for 12V systems. If the voltage ground supplies and the xenon globes are functional a faulty ballast is likely to be cause of the problem.

Colour Match HID Globes

As HID globes age, the colour temperature increases resulting in a whiter light. When an HID globe is replaced with a new globe it can look yellow compared to the original globe, and will whiten with use. If a white light from installation is desired, a colour match globe may be used which will be a closer match to the older globe from the first use. These globes are ECE and ADR compliant.

Xenon Gas Discharge (HID) Conversions

Available online and from some importers HID conversion kits, which enable the buyer to swap the halogen globe and replace it with a non-compliant HID globe. This illegal and dangerous combination can cause excessive glare and poses a considerable hazard for other road users.

	HALOGEN GLOBE (H7)	GAS DISCHARGE LAMP (HID)
Light source:	Filament	Light arc
Luminance:	1450 cd/m ²	3000 cd/m ²
Capacity:	55W	35W
Energy balance:	8% light radiation 92% heat radiation	28% light radiation 58% heat radiation 14% UV radiation
Service life:	Approx. 500 hours	Approx. 2500 hours
Vibration-proof:	To a certain extent	Yes
Ignition voltage:	No	Yes 23000V (3rd generation)
Electronic control:	No	Yes

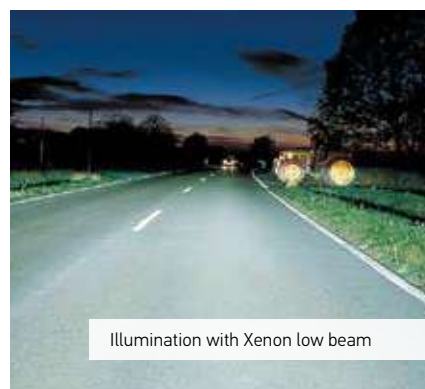
Tips for Dealing with HID Electronic Ballasts

A faulty ballast leads to complete headlight failure. Possible causes for failure of the ballast are:

- Lack of voltage/sufficient current supply.
- Lack of ground connection.
- Faulty electronics of the device.
- Internal short-circuits.



Illumination with Halogen low beam



Illumination with Xenon low beam

QUICK REFERENCE GLOBE GUIDE

HALOGEN HEADLAMP GLOBES

H1



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H7



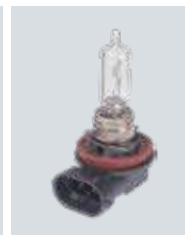
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H11



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HB3



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HB4



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HB5



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XENON GAS DISCHARGE GLOBES

D1S



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D2S



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CONVENTIONAL SIGNAL AND MARKER GLOBES

BAYONET



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WEDGE



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FESTOON



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PLASTIC



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QUICK REFERENCE UPGRADE GLOBE GUIDE



XENON WHITE ULTRA-BLUE – WHITER (UP TO 4200°K)

These globes come close to emulating the colour of a Xenon HID lamp. The high colour temperature of the Cool Blue globes creates the crisp white light which provides illumination that is conspicuous while being easy on the eye

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	H1XWUBLUEDP2		12V	55W	P14.5s	Twin		458
	H3	H3XWUBLUEDP2		12V	55W	PK22s	Twin		460
	H4	H4XWUBLUEDP2		12V	60/55W	P43t	Twin		461
	HB3	HB3XWUBLUEDP2		12V	60W	P20d	Twin		462
	HB4	HB4XWUBLUEDP2		12V	51W	P22d	Twin		463
	H7	H7XWUBLUEDP2		12V	55W	PX26d	Twin		464
	H9	H9XWUBLUEDP2		12V	55W	PX26d	Twin		465
	H11	H11XWUBLUEDP2		12V	55W	PX26d	Twin		465
	T4W	HLB124BL2		12V	4W	BA9s	Twin		468
	W5W	WBQ125BL2		12V	5W	W2.1x9.5d	Twin		476

PLUS100 LONGLIFE - UP TO 2.5 TIMES THE LIFETIME AND 100% GREATER ILLUMINATION.



A new generation of high performance Halogen Globes specifically designed to cope with the extreme demands of 24-volt heavy-duty commercial transport applications. The advanced single-coil filament technology is highly vibration resistant and up to 100% brighter than normal, typically extending useful illumination of the road by 20 metres and delivering double the service life of standard globes.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated Life T _C (Hrs)		Page
	H1	C2470LTS		24V	70W	P14.5s	ONGLIFE 1200 STANDARD 650		458
	H3	YC2470LTS		24V	70W	PK22s	ONGLIFE 1200 STANDARD 650		460
	H4	XD2475/70LTS		24V	75/70W	P43t	ONGLIFE 1400 STANDARD 700		461
	H7	CA2470LTS		24V	70W	PX26d	ONGLIFE 1000 STANDARD 550		464



LONGLIFE (LL) - UP TO TWICE THE LIFE

LongLife (LL) globes are increasing in popularity for applications such as taxis and drivers using headlamps during the day. Many new vehicles now come equipped with LongLife globes as a standard fitment. The globes will provide safe and legal light performance and can be rated at twice or greater the service life of standard globes.

UPGRADE GLOBES

Globe	Category	Part Number		Voltage	Power Consumption	Base	*Rated Life Tc (Hrs)		Page
12V LONGLIFE GLOBES									
	H1	C1255LL		12V	55W	P14.5s	LONGLIFE 1250 STANDARD 400		458
	H1	H1-LLDP2		12V	55W	P14.5s	LONGLIFE 1250 STANDARD 400		458
	H3	YC1255LL		12V	55W	PK22s	LONGLIFE 1500 STANDARD 450		460
	H3	H3-LLDP2		12V	55W	PK22s	LONGLIFE 1500 STANDARD 450		460
	H4	XD1260/55LL		12V	60/55W	P43t	LONGLIFE 1500 STANDARD 700		462
	H4	H4-LLDP2		12V	60/55W	P43t	LONGLIFE 1500 STANDARD 700		461
	HB3	HB3-LLDP2		12V	60W	P20d	LONGLIFE 1500 STANDARD 700		462
	HB4	HB4-LLDP2		12V	51W	P22d	LONGLIFE 1500 STANDARD 700		463
	HB5	CC1265/55LL		12V	65/55W	PX29t	LONGLIFE 1500 STANDARD 700		463
	H7	CA1255LL		12V	55W	PX26d	LONGLIFE 930 STANDARD 550		464
	H7	H7-LLDP2		12V	55W	PX26d	LONGLIFE 930 STANDARD 550		464
	H9	H9-LLDP2		12V	65W	PGJ19-5	LONGLIFE 650 STANDARD 500		465
	H11	H11-LLDP2		12V	55W	PGJ19-2	LONGLIFE 1800 STANDARD 580		465
	R5W	G125LL		12V	5W	BA15s	LONGLIFE 1500 STANDARD 300		471
	R10W	G1210LL		12V	10W	BA15s	LONGLIFE 500 STANDARD 300		471
	PY21W	RY1221LL		12V	21W	BAU15s	LONGLIFE 2400 STANDARD 450		472
	P21W	R1221LL		12V	21W	BA15s	LONGLIFE 1000 STANDARD 320		472
	P21/5W	S1221/5VLL		12V	21/5W	BAY15d	LONGLIFE *800 STANDARD *320		473
	W5W	W125LL		12V	5W	W2.1x9.5d	LONGLIFE 2000 STANDARD 700		476
24V LONGLIFE GLOBES									
	H1	H1-LL-24VDP2		24V	70W	P14.5s	LONGLIFE 1250 STANDARD 400		458
	H3	H3-LL-24VDP2		24V	70W	PK22s	LONGLIFE 1500 STANDARD 450		460
	H4	XD2475/70LL		24V	75/70W	P43t	LONGLIFE 1500 STANDARD 700		462
	H4	H4-LL-24VDP2		24V	75/70W	P43t	LONGLIFE 1500 STANDARD 700		463
	H7	H7-LL-24VDP2		24V	70W	PX26d	LONGLIFE 930 STANDARD 550		464
	T4W	HL244LL		24V	4W	BA9s	LONGLIFE 1000 STANDARD 350		469
	R5W	G245LL		24V	5W	BA15s	LONGLIFE 1000 STANDARD 225		471
	R10W	G2410LL		24V	10W	BA15s	LONGLIFE 1000 STANDARD 225		471
	PY21W	RY2421LL		24V	21W	BAU15s	LONGLIFE 500 STANDARD N/A		472
	P21W	R2421LL		24V	21W	BA15s	LONGLIFE 1000 STANDARD 160		472

*Test performed on main filament only.



PLATINUM WHITE-PLUS 100 - UP TO + 100% BRIGHTER

Plus 100 globes are the ideal globes for drivers looking to increase safety with more light on the road. This halogen globe produces up to 100% more light on the road, has a beam that is up to 25 metres longer and provides light that is up to 10% whiter than a standard globe.

UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	H1-PW100DP2		12V	55W	P14.5s	Twin		458
	H3	H3-PW100DP2		12V	55W	PK22s	Twin		460
	H4	H4-PW100DP2		12V	60/55W	P43t	Twin		461
	H7	H7-PW100DP2		12V	55W	PX26d	Twin		464
	H9	H9-PW100DP2		12V	65W	PGJ19-5	Twin		465
	H11	H11-PW100DP2		12V	55W	PGJ19-2	Twin		465
	HB3	HB3-PW100DP2		12V	60W	P20d	Twin		462
	HB4	HB4-PW100DP2		12V	51W	P22d	Twin		463



SUPERVISION-PLUS 50 - UP TO + 50% BRIGHTER


Plus 50 globes take lighting even further by providing up to 50% more illumination on the road than a standard headlamp globe while emitting a 10-20m longer beam.

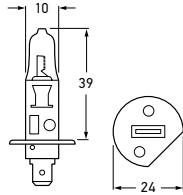
UPGRADE GLOBES									
Globe	Category	Part Number		Voltage	Power Consumption	Base	Pack Qty		Page
	H1	H1-SV50DP2		12V	55W	P14.5s	Twin		458
	H3	H3-SV50DP2		12V	55W	PK22s	Twin		460
	H4	H4-SV50DP2		12V	60/55W	P43t	Twin		461
	H7	H7-SV50DP2		12V	55W	PX26d	Twin		464
	H9	H9-SV50DP2		12V	65W	PGJ19-5	Twin		465
	H11	H11-SV50DP2		12V	55W	PGJ19-2	Twin		465
	HB3	HB3-SV50DP2		12V	60W	P20d	Twin		462
	HB4	HB4-SV50DP2		12V	51W	P22d	Twin		463















P/N H1-SV50DP2







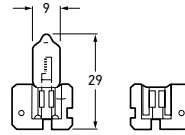
 Retail Packaging



HALOGEN GLOBES - H1						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
H1-SV50DP2 8GH 211 730-391		12V	55W	P14.5s	H1	Twin 
H1-XWUBLUEDP2 8GH 211 730-401		12V	55W	P14.5s	H1	Twin 
H1-PW100DP2 8GH 211 730-421		12V	55W	P14.5s	H1	Twin 
H1-LLDP2 8GH 178 555-381		12V	55W	P14.5s	H1	Twin 
H1-LL-24VDP2 8GH 178 555-414		24V	70W	P14.5s	H1	Twin 

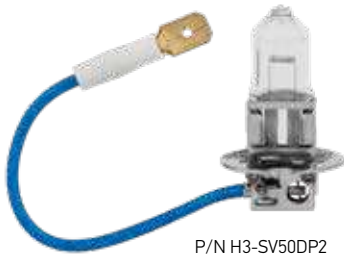
HALOGEN GLOBES - H1						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)
C2470LTS 8GH 002 089-492		24V	70W	P14.5s	H1	LONGLIFE 1200 STANDARD 650
C1255LL 8GH 002 089-352		12V	55W	P14.5s	H1	LONGLIFE 1250 STANDARD 400

HALOGEN GLOBES - H1						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
C12100 8GH 002 089-152		12V	100W	P14.5s	-	-
C12100BL 8GH 002 089-154		12V	100W	P14.5s	-	- 
C24100 8GH 002 089-452		24V	100W	P14.5s	-	-
C24100BL 8GH 002 089-454		24V	100W	P14.5s	-	- 
C1255 8GH 002 089-131		12V	55W	P14.5s	H1	-
C1255BL 8GH 002 089-132		12V	55W	P14.5s	H1	- 
C2455 8GS 910 367-001		24V	55W	P14.5s	-	-
C2470 8GH 002 089-252		24V	70W	P14.5s	H1	-
C2470BL 8GH 002 089-254		24V	70W	P14.5s	H1	- 



P/N CD12100

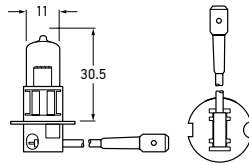
HALOGEN GLOBES - H2						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
CD12100 8GH 002 857-152	12V	100W	X511	-	-	
CD12100BL 8GH 002 857-153	12V	100W	X511	-	Single	
CD1255 8GH 002 857-124	12V	55W	X511	H2	-	
CD24100 8GH 002 857-231	24V	100W	X511	-	-	
CD2470 8GH 002 857-242	24V	70W	X511	H2	-	















P/N H3-SV50DP2







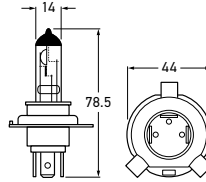
Retail Packaging



HALOGEN GLOBES - H3						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H3-SV50DP2 8GH 211 730-431 	12V	55W	PK22s	H3	Twin	
H3-XWUBLUEDP2 8GH 211 730-441 	12V	55W	PK22s	H3	Twin	
H3-PW100DP2 8GH 211 730-461 	12V	55W	PK22s	H3	Twin	
H3-LLDP2 8GH 211 730-471 	12V	55W	PK22s	H3	Twin	
H3-LL-24VDP2 8GH 178 555-424 	24V	70W	PK22s	H3	Twin	

HALOGEN GLOBES - H3						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)	
YC1255LL 8GH 002 090-111 	12V	55W	PK22s	H3	LOGLIFE 1500	STANDARD 450
YC2470LTS 8GH 002 090-472 	24V	70W	PK22s	H3	LOGLIFE 1200	STANDARD 650

HALOGEN GLOBES - H3						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
YC12100 8GH 002 090-051	12V	100W	PK22s	-		
YC12100BL 8GH 002 090-052	12V	100W	PK22s	-	Single	
YC24100 8GH 002 090-452	24V	100W	PK22s	-		
YC24100BL 8GH 002 090-454	24V	100W	PK22s	-	Single	
YC1255 8GH 002 090-131	12V	55W	PK22s	H3		
YC1255BL 8GH 002 090-133	12V	55W	PK22s	H3	Single	
YC2470 8GH 002 090-254	24V	70W	PK22s	H3		
YC2470BL 8GH 002 090-256	24V	70W	PK22s	H3	Single	



HALOGEN GLOBES - H4						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
H4-SV50DP2 8GJ 002 525-653		12V	60/55W	P43t	H4	Twin
H4-XWUBLUEDP2 8GJ 002 525-364		12V	60/55W	P43t	H4	Twin
H4-PW100DP2 8GJ 211 730-491		12V	60/55W	P43t	H4	Twin
H4-LLDP2 8GJ 178 555-391		12V	60/55W	P43t	H4	Twin
H4-LL-24VDP2 8GJ 178 555-434		24V	75/70W	P43t	H4	Twin



P/N H4-SV50DP2

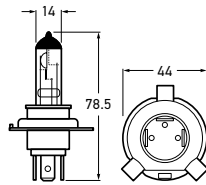


Retail Packaging

HALOGEN GLOBES - H4										
Part Number		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)				
XD2475/70LTS 8GJ 002 525-712		24V	75/70W	P43t	H4	<table border="0"> <tr> <td>LOGLIFE</td> <td>STANDARD</td> </tr> <tr> <td>1400</td> <td>700</td> </tr> </table>	LOGLIFE	STANDARD	1400	700
LOGLIFE	STANDARD									
1400	700									



P/N XD1260/55LL



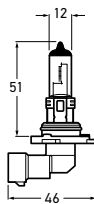
HALOGEN GLOBES - H4							
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
XD1260/55LL 8GJ 002 525-482		12V	60/55W	P43t	H4	LOGLIFE 1500	STANDARD 700
XD2475/70LL 8GJ 002 525-701		24V	75/70W	P43t	H4	LOGLIFE 1500	STANDARD 700

HALOGEN GLOBES - H4						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
XD12100/55 8GJ 002 525-102	12V	100/55W	P43t	-	-	
XD12100/90 8GJ 002 525-202	12V	100/90W	P43t	-	-	
XD12100/90BL 8GJ 002 525-205	12V	100/90W	P43t	-	-	
XD24100/90 8GJ 002 525-452	24V	100/90W	P43t	-	-	
XD1260/55 8GJ 002 525-131	12V	60/55W	P43t	H4	-	
XD1260/55BL 8GJ 002 525-133	12V	60/55W	P43t	H4	-	
XD2475/70 8GJ 002 525-254	24V	75/70W	P43t	H4	-	
XD2475/70BL 8GJ 002 525-255	24V	75/70W	P43t	H4	-	



P/N HB3-SV50DP2

Cool Blue

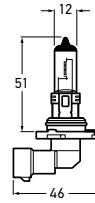






HALOGEN GLOBES - HB3						
Part Numbers		Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty
HB3-SV50DP2 8GH 211 730-631		12V	60W	P20d	HB3	Twin
HB3-XWUBLUEDP2 8GH 211 730-641		12V	60W	P20d	HB3	Twin
HB3-PW100DP2 8GH 211 730-661		12V	60W	P20d	HB3	Twin
HB3-LLDP2 8GH 005 635-021		12V	60W	P20d	HB3	Twin
CB1265 8GH 956 174-041		12V	60W	P20d	HB3	-




Retail Packaging

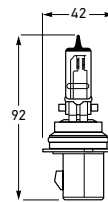
AUTOMOTIVE GLOBES



HALOGEN GLOBES - HB4						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
HB4-SV50DP2 8GH 211 730-671	12V	51W	P22d	HB4	Twin	
HB4-XWUBLUEDP2 8GH 211 730-681	12V	51W	P22d	HB4	Twin	
HB4-PW100DP2 8GH 211 730-701	12V	51W	P22d	HB4	Twin	
HB4-LLDP2 8GH 211 730-711	12V	51W	P22d	HB4	Twin	
CC1255 8GH 005 636-122	12V	51W	P22d	HB4	-	



 Retail Packaging



HALOGEN GLOBES - HB5						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
CC1265/55LL 8GJ 008 824-141	12V	65/55W	PX29t	-	LONG LIFE 1500	STANDARD 700
Note	SAE Category HB5					



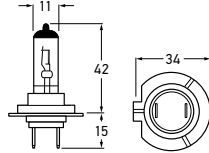
P/N CC1265/55LL















P/N H7-SV50DP2





 Retail Packaging

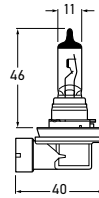


HALOGEN GLOBES - H7						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H7-SV50DP2 8GH 178 555-581 	12V	55W	PX26d	H7	Twin	
H7-XWUBLUEDP2 8GH 178 555-571 	12V	55W	PX26d	H7	Twin	
H7-PW100DP2 8GH 211 730-511 	12V	55W	PX26d	H7	Twin	
H7-LLDP2 8GH 211 730-521 	12V	55W	PX26d	H7	Twin	
H7-LL-24VDP2 8GH 211 730-531 	24V	70W	PX26d	H7	Twin	

HALOGEN GLOBES - H7						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)	
CA2470LTS 8GH 007 157-232 	24V	70W	PX26d	H7	LOGLIFE 1000	STANDARD 500
CA1255LL 8GH 007 157-202 	12V	55W	PX26d	H7	LOGLIFE 930	STANDARD 550

HALOGEN GLOBES - H7						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
CA1255 8GH 007 157-124	12V	55W	PX26d	H7	-	
CA1255BL 8GH 007 157-128	12V	55W	PX26d	H7	Single	
CA2470 8GH 007 157-242	24V	70W	PX26d	H7	-	

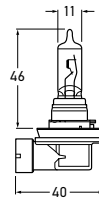
AUTOMOTIVE GLOBES












HALOGEN GLOBES - H8						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
CE1235 8GH 008 356-122	12V	35W	PGJ 19-1	H8		



P/N CE1235



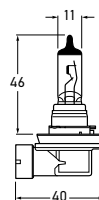
HALOGEN GLOBES - H9						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H9-SV50DP2 8GH 211 730-541 	12V	65W	PGJ 19-5	H9	Twin	
H9-XWUBLUEDP2 8GH 211 730-551 	12V	65W	PGJ 19-5	H9	Twin	
H9-PW100DP2 8GH 211 730-571 	12V	65W	PGJ 19-5	H9	Twin	
H9-LLDP2 8GH 211 730-581 	12V	65W	PGJ 19-5	H9	Twin	
CF1265 8GH 008 357-002	24V	65W	PGJ 19-5	H9	Twin	











P/N H9-SV50DP2



 Retail Packaging



HALOGEN GLOBES - H11						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
H11-SV50DP2 8GH 211 730-591 	12V	55W	PGJ 19-2	H11	Twin	
H11-XWUBLUEDP2 8GH 211 730-601 	12V	55W	PGJ 19-2	H11	Twin	
H11-PW100DP2 8GH 211 730-621 	12V	55W	PGJ 19-2	H11	Twin	
H11-LLDP2 8GH 178 555-401 	12V	55W	PGJ 19-2	H11	Twin	
CG1255 8GH 008 358-122	12V	55W	PGJ 19-2	H11		
CG2470 8GH 008 358-242	24V	70W	PGJ 19-2	H11		



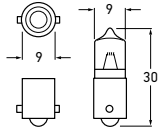
P/N H11-SV50DP2



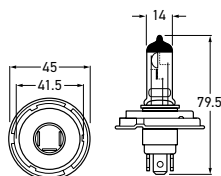
 Retail Packaging



P/N YL125

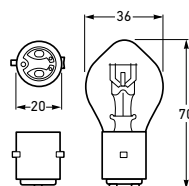


SPECIAL PURPOSE HALOGEN GLOBES - TRANSVERSE FILAMENT					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
YL125 8GH 002 473-152	12V	5W	BA9s	-	
YL1210 8GH 002 473-171	12V	10W	BA9s	-	



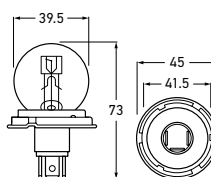
P/N XE1260/55

HALOGEN HEADLAMP GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
XE1260/55 8GJ 004 173-122	12V	60/55W	P45t	-	
XE2475/70 8GJ 003 133-241	24V	75/70W	P45t	-	



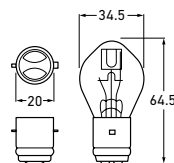
P/N D1235/35

HEADLAMP GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
D1235/35 8GD 002 084-132	12V	35/35W	BA20d	S2	



P/N A2455/50

A2455/50 8GD 002 088-252	24V	55/50W	P45t-41	R2	
Note	European base				

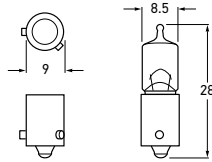


P/N B1245/40

B1245/40 8GD 002 084-152	12V	45/40W	BA20d	-	
Note	Bosch base				



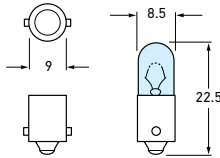
P/N W126BL2





HALOGEN MINIATURE GLOBES						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
W126BL2 8GH 007 643-122	12V	6W	BAX9s	H6W	Twin	



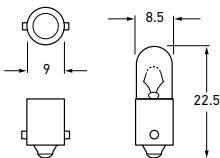
P/N HLB124BL2



MINIATURE GLOBES						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
HLB124BL2 8GP 002 067-012 	12V	4W	BA9s	T4W	Twin	

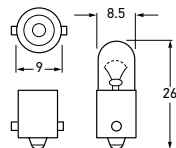


P/N HL126X



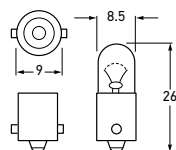
MINIATURE GLOBES - MINIXEN						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category		
HL126X 8GA 007 676-131	12V	6W	BA9s	-		

High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.



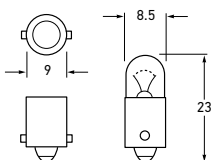
P/N HL244LL

MINIATURE GLOBES						
Part Number	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)	
HL244LL 8GP 002 067-262	24V	4W	BA9s	T4W	LOGLIFE 1000	STANDARD 350



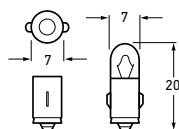
P/N HL64

MINIATURE GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		
HL64 8GP 002 067-062	6V	4W	BA9s	T4W		
HL124 8GP 002 067-152	12V	4W	BA9s	T4W		
HL244 8GP 002 067-243	24V	4W	BA9s	T4W		



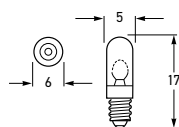
P/N H122

H122 8GP 002 068-122	12V	2W	BA9s	-		
H123 8GP 002 068-132	12V	3W	BA9s	-		
H242 8GP 002 068-242	24V	2W	BA9s	-		



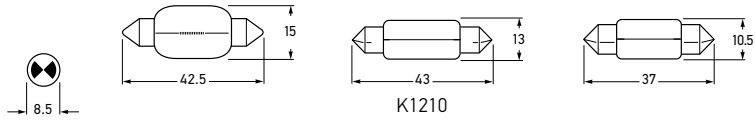
P/N J122

J122 8GP 002 066-122	12V	2W	BA7s	-		
J243 8GP 002 066-242	24V	3W	BA7s	-		



P/N 292

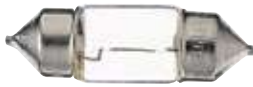
292 8GP 002 095-081	12V	1.5W	E 5.5	-	-	
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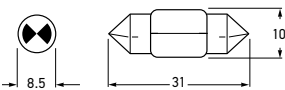
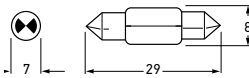
P/N K1210



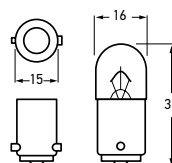
P/N M123







P/N N1210

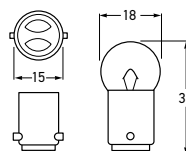


FESTOON GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
L125 8GM 002 092-124	12V	5W	SV8.5	C5W	
L1210 8GM 993 406-002	12V	10W	SV8.5	-	
L2410 8GM 002 091-031	24V	10W	SV8.5	-	
L245 8GM 002 092-243	24V	5W	SV8.5	C5W	
K1210 8GM 002 091-133	12V	10W	SV8.5		
K2410 8GM 002 091-251	24V	10W	SV8.5		
K1218 8GM 002 091-122	12V	18W	SV8.5	-	
K1221 8GM 002 091-182	12V	21W	SV8.5	C21W	
K2418 8GM 002 091-242	24V	18W	SV8.5	-	
K2421 8GM 002 091-011	24V	21W	SV8.5	-	
M123 8GM 002 094-121	12V	3W	S7	-	
M243 8GM 002 094-242	24V	3W	S7	-	
N1210 8GM 002 091-301	12V	10W	SV8.5	-	



P/N G125LL

REAR POSITION, MARKER AND CLEARANCE GLOBES							
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)		
G125LL 8GA 002 071-352 	12V	5W	BA15s	R5W	LOGLIFE 1500	STANDARD 300	
G1210LL 8GA 002 071-342 	12V	10W	BA15s	R10W	LOGLIFE 500	STANDARD 300	
G245LL 8GA 002 071-262 	24V	5W	BA15s	R5W	LOGLIFE 1000	STANDARD 225	
G2410LL 8GA 002 071-272 	24V	10W	BA15s	R10W	LOGLIFE 1000	STANDARD 225	
G610 8GA 002 071-072	6V	10W	BA15s	R10W			
G125 8GA 002 071-124	12V	5W	BA15s	R5W			
G1210 8GA 002 071-134	12V	10W	BA15s	R10W			
G242 8GS 910 363-001	24V	2W	BA15s	R2W			
G245 8GA 002 071-243	24V	5W	BA15s	R5W			
G2410 8GA 002 071-253	24V	10W	BA15s	R10W			

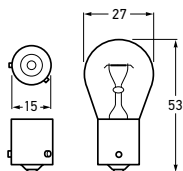


P/N GD125

GD125 8GA 002 071-371	12V	5W	BA15d	R5W			
GD245 8GA 002 071-361	24V	5W	BA15d	R5W			



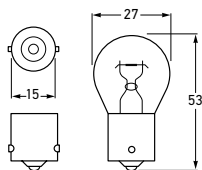
P/N RY1221LL



BAYONET INDICATOR AND STOP LAMP GLOBES							
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _C (Hrs)		
RY1221LL 8GA 006 841-041	12V	21W	BAU15s	PY21W	LOGLIFE 2400	STANDARD 450	
RY2421LL 8GA 006 841-252	24V	21W	BAU15s	PY21W	LOGLIFE 750	STANDARD N/A	
RY1221 8GA 006 841-122	12V	21W	BAU15s	PY21W			



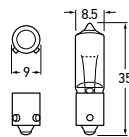
P/N R1221LL



R1221LL 8GA 002 073-272	12V	21W	BA15s	P21W	LOGLIFE 1000	STANDARD 320
R2421LL 8GA 002 073-252	24V	21W	BA15s	P21W	LOGLIFE 500	STANDARD 160



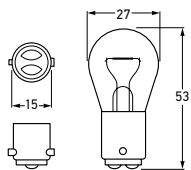
P/N RQ1221



RQ1221 8GH 008 417-002	12V	21W	BAY9s	H21W		
RQ2421 8GH 008 417-013	24V	21W	BAY9s	H21W		



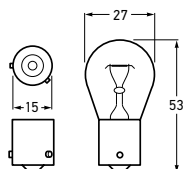
P/N FD1221



FD1221 8GA 002 073-161	12V	21W	BA15d	P21W		
FD2421 8GA 002 073-031	24V	21W	BA15d	P21W		

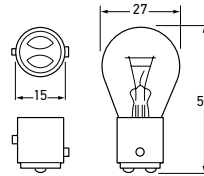


P/N R618




R618 8GA 002 072-071	6V	18W	BA15s			
R1218 8GA 002 072-122	12V	18W	BA15s			
R1221 8GA 002 073-124	12V	21W	BA15s	P21W		
R2418 8GA 002 072-242	24V	18W	BA15s			
R2421 8GA 002 073-243	24V	21W	BA15s	P21W		

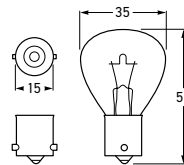
AUTOMOTIVE GLOBES



P/N S1221/5VLL

BAYONET STOP AND TAIL LAMP GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)	
S1221/5VLL 8GD 002 078-172 	12V	21/5W	BAY15d	P21/5W	LONG LIFE *800	STANDARD *320
Note		*Test performed on main filament only.				
S1221/5V 8GD 002 078-124	12V	21/5W	BAY15d	P21/5W		
S2418/5V 8GD 002 078-071	24V	18/5W	BAY15d			
S2421/5V 8GD 002 078-012	24V	21/5W	BAY15d	P21/5W		

SPECIAL PURPOSE GLOBES

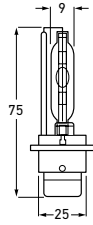


P/N U1245

SPECIAL GLOBES FOR EMERGENCY FLASHER AND REVOLVING LAMPS						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category		
U1245 8GA 002 074-122	12V	45W	BA15s	-		
U2445 8GA 002 074-242	24V	45W	BA15s	-		



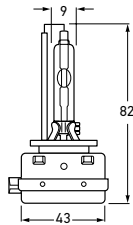
P/N XN4000



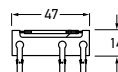
D2S XGD GLOBES					
Part Number	Voltage	Power Consumption	Base	ADR 78/00 Category	Colour Temperature
XN4000 8GS 007 949-102	85V	35W	P32d-2	D2S	4200°K
Note For use only with appropriate electronic control gear.					



P/N XN4001

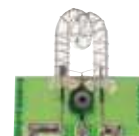
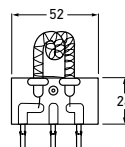


D1S XGD GLOBE					
Part Number	Voltage	Power Consumption	Base	ADR 78/00 Category	Colour Temperature
XN4001 8GS 009 028-002	85V	35W	PK32d-2	D1S	4200°K
Note For use only with appropriate electronic control gear.					



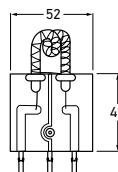
P/N XN000

STROBE FLASH TUBES					
Part Numbers	Voltage	Power Consumption	Base		
XN000 8GS 910 369-001	12-72V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits Firebolt Plus Series Strobe Lamps.				



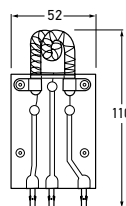
P/N XN451

XN451 8GS 910 368-001	12-48V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits 451 Series Strobe Lamps				

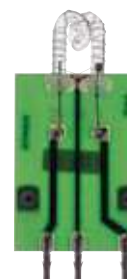


P/N XN551

XN551 8GS 910 362-001	12-48V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits Pulsator 551 Series Strobe Lamps.				



P/N XN850



P/N XN850

STROBE FLASH TUBES					
Part Numbers	Voltage	Power Consumption	Base		
XN850 8GS 910 366-001	12/48V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits 851 Series Strobe Lamps.				

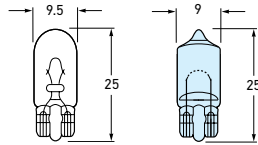
XN6750 8GS 910 370-001	12/24V	-	Circuit Board		
Note	For use only with appropriate electronic control gear. Suits 6750 Series Strobe Lamps.				



P/N XN6750



P/N WBQ125BL2



P/N W126X P/N WBQ125BL2



P/N W126X

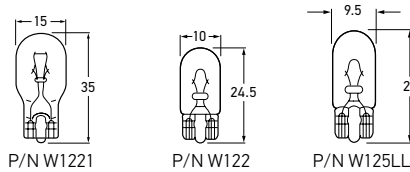
HALOGEN WEDGE BASE GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	Pack Qty	
WBQ125BL2 8GP 003 594-291	12V	5W	W2.1x9.5d	W5W	Twin	

W126X 8GP 003 594-401	12V	6W	W2.1x9.5d	-	-	
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High performance miniature globe utilising xenon filling gas to provide 60% brighter light than standard equivalents.



P/N W125LL



P/N W1221 P/N W122 P/N W125LL

WEDGE BASE GLOBES						
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	*Rated Life T _c (Hrs)	
W125LL 8GP 003 594-161	12V	5W	W2.1x9.5d	W5W	LONG LIFE 1500	STANDARD 700



P/N W122

W122 8GP 002 095-071	12V	2 c.p	W2.1x9.5d	-		
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W125 8GP 003 594-124	12V	5W	W2.1x9.5d	W5W		
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W245 8GP 003 594-243	24V	5W	W2.1x9.5d	W5W		
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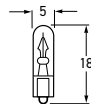
P/N W1221

W1221 8GA 008 246-001	12V	21 c.p	W2.1x9.5d	W16W		
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WS1212 8GP 002 095-051	12V	12 c.p	W2.1x9.5d	-		
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P/N WBL122



WBL122* 8GP 002 095-021	12V	2W	Wedge	-		
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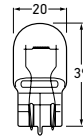
WS122 8GP 002 095-041	12V	2W	W2x4.6d	-		
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WS242 8GP 002 095-011	24V	2W	W2x4.6d	-		
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W121.2 8GP 002 095-121	12V	1.2W	W2x4.6d	-		
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W241.2 8GP 002 095-242	24V	1.2W	W2x4.6d	-		
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Note *Special for early model Matrix high level brake lamps.

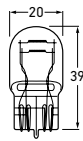


P/N WG1221

GLASS WEDGE BASE GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
WG1221 8GA 008 892-001	12V	21W	W3x16d	W21W	
WGY1221 8GP 009 021-123	12V	21W	W3x16d	WY21W	

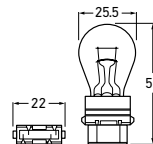


P/N WGY1221



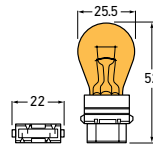
P/N WG1221/5

WG1221/5 8GD 008 893-001	12V	21/5W	W3x16q	W21/5W	
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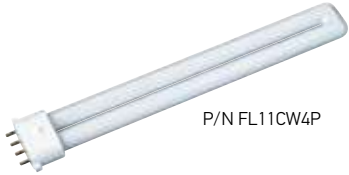
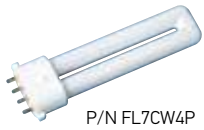
P/N WP1227/7

PLASTIC WEDGE BASE GLOBES					
Part Numbers	Voltage	Power Consumption	Base	ADR 51/00 Category	
WP1227/7 8GD 007 731-271	12V	27/7W	W2.5x16q	P27/7W	



P/N WPA1227/7

WPA1227/7 8GD 007 731-011	12V	27/7W	W2.5x16q	P27/7W	
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FLUORESCENT TUBES			
Part Numbers	Power Consumption	Base	Colour
FL7CW4P 8GS 861 955-051	7W	2G7	840 Cool White
Suits	P/Ns 2642/2642-24V		
FL11CW4P 8GS 861 955-022	11W	2G7	840 Cool White
Suits	P/Ns 2643/2643-24V/1523		
FL8 8GS 910 361-001	8W	TL8W	25 Cool White
Suits	P/Ns 2644/2644-24V/7033		

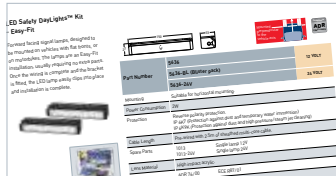


3RD EDITION ADR REFERENCE GUIDE

The following pages are a guide to mounting HELLA lamps in compliance with the Australian Design Rules (ADR). The diagrams in this section are intended as a general guide only, for exact mounting specifications please refer to ADR 13/00.



A quick reference



1. Find the product that fulfils your illumination requirement.



2. Check for the ADR symbol next to the part number to ensure it's compliance.

HELLA Part No.	Engineering Drawing No.	A.D.R. No.	Function
2350	001360-25	68-03	Number Plate Lamp
2351	001360-21	68-02	Number Plate Lamp
2352	191040-02	68-03	Number Plate Lamp
2354	191051-02	68-03	Number Plate Lamp
2355	001360-10	68-03	Number Plate Lamp

3. Look up the part number on the chart in this section for complete ADR information.

Simpler ADR Compliance

The 3rd edition ADR covers all vehicles and trailers, even those not subject to registration requirements such as very light trailers or 'box' trailers.

To simplify the ADR approval process for smaller manufacturers and individual home-builders, HELLA has made a consolidated Summary

of Evidence (SE) submission to the Federal Office of Road Safety (FORS). This submission covers all HELLA products that comply with 3rd Edition ADRs.

This catalogue lists both the HELLA and FORS Component Registration Numbers (CRN) beside each item in a quick reference ADR application

chart in this section.

HELLA provides specific ADR related lamp orientation and mounting requirements to enable customers requiring ADR compliance to simply quote the relevant CRN to the authorities (who maintain a central register), rather than undertake detailed SE submissions for each lamp function.

REAR

- 1 ADR 49/00 Rear End Outline Lamps
- 2 ADR 48/00 Number Plate Lamps
- 3 ADR 6/00: Cat.2 Rear Direction Indicators
- 4 ADR 49/00 Rear Position Lamps
- 5 ADR 49/00 Stop Lamps
- 6 ADR 47/00 Rear Retro Reflectors
- 7 ADR 1/00 Reversing Lamps

SIDE

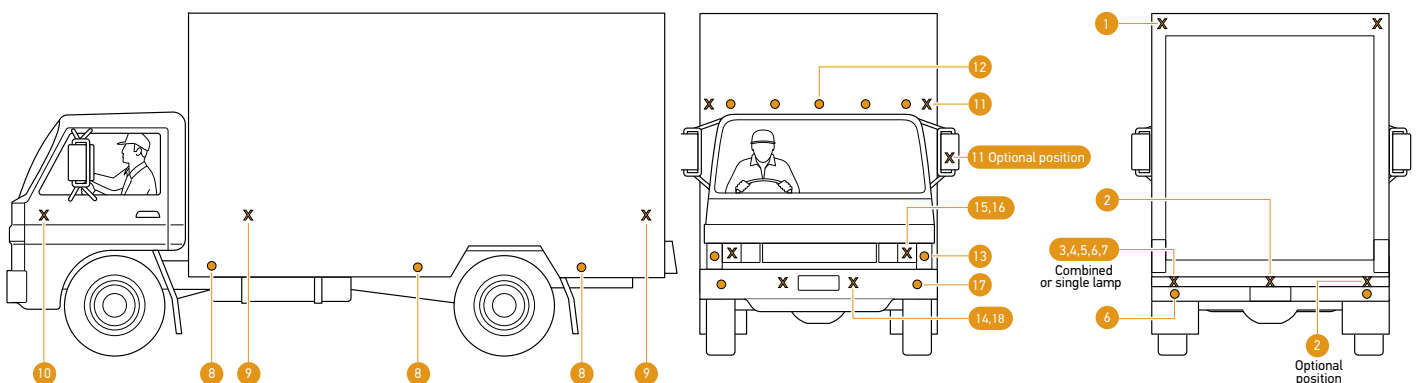
- 8 ADR 47/00 Side Retro Reflectors
- 9 ADR 45/01 or 74/00 Side Markers
- 10 ADR 6/00 Supplementary Side Direction Indicators

FRONT

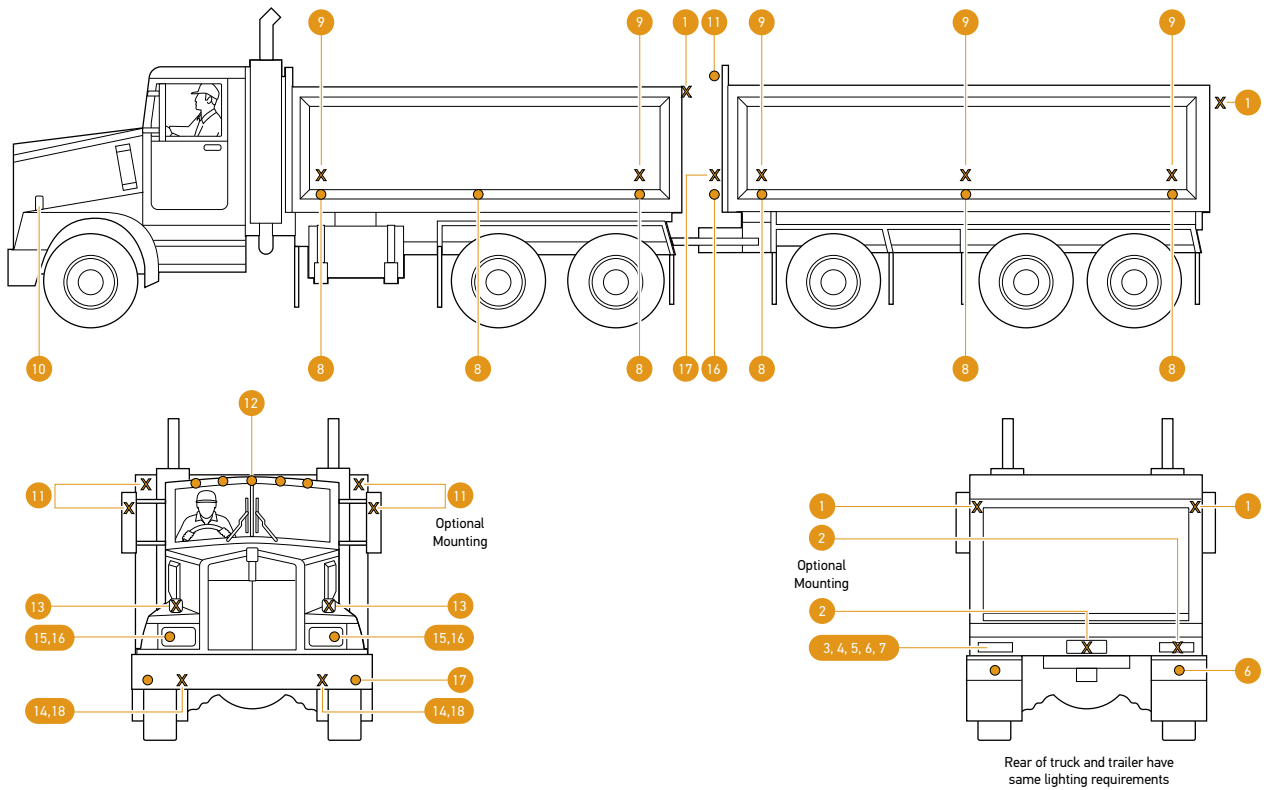
- 11 ADR 49/00 Front End Outline Lamps
- 12 ADR 45/01 Cab Markers (optional)
- 13 ADR 6/00: Cat.1 Front Direction Indicators
- 14 ADR 50/00 Front Fog Lamps (optional)
- 15 ADR 46/00 Headlamps
- 16 ADR 49/00 Front Position Lamps
- 17 ADR 47/00 Front Retro Reflectors
- 18 ADR 76/00 Daytime Running Lamps (optional)
- 19 Driving Lamps (optional)

*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

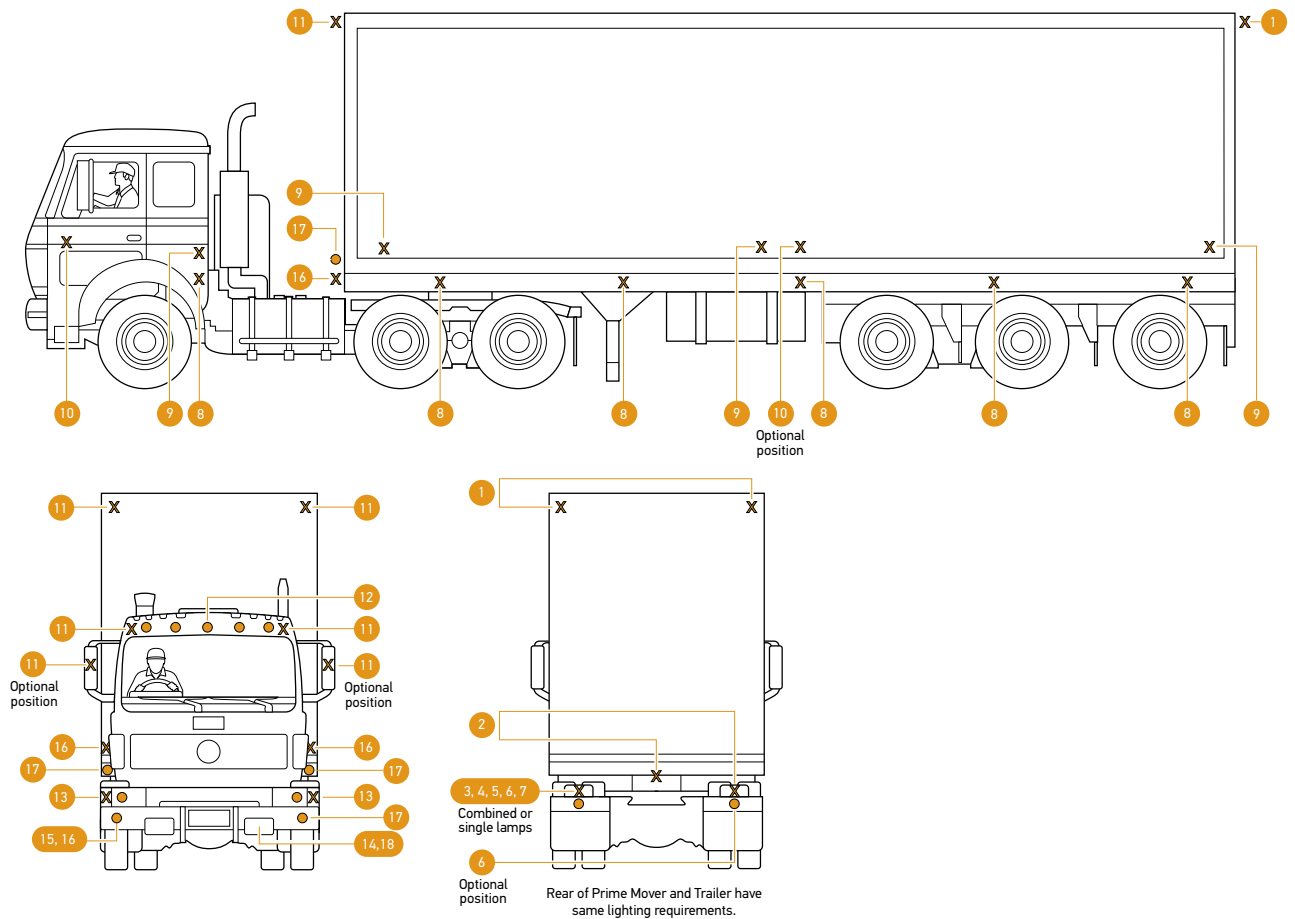
SMALL TRUCK



SINGLE TRAILER



SEMI TRAILER



REAR

- 1 ADR 49/00 Rear End Outline Lamps
- 2 ADR 48/00 Number Plate Lamps
- 3 ADR 6/00: Cat.2 Rear Direction Indicators
- 4 ADR 49/00 Rear Position Lamps
- 5 ADR 49/00 Stop Lamps
- 6 ADR 47/00 Rear Retro Reflectors
- 7 ADR 1/00 Reversing Lamps

SIDE

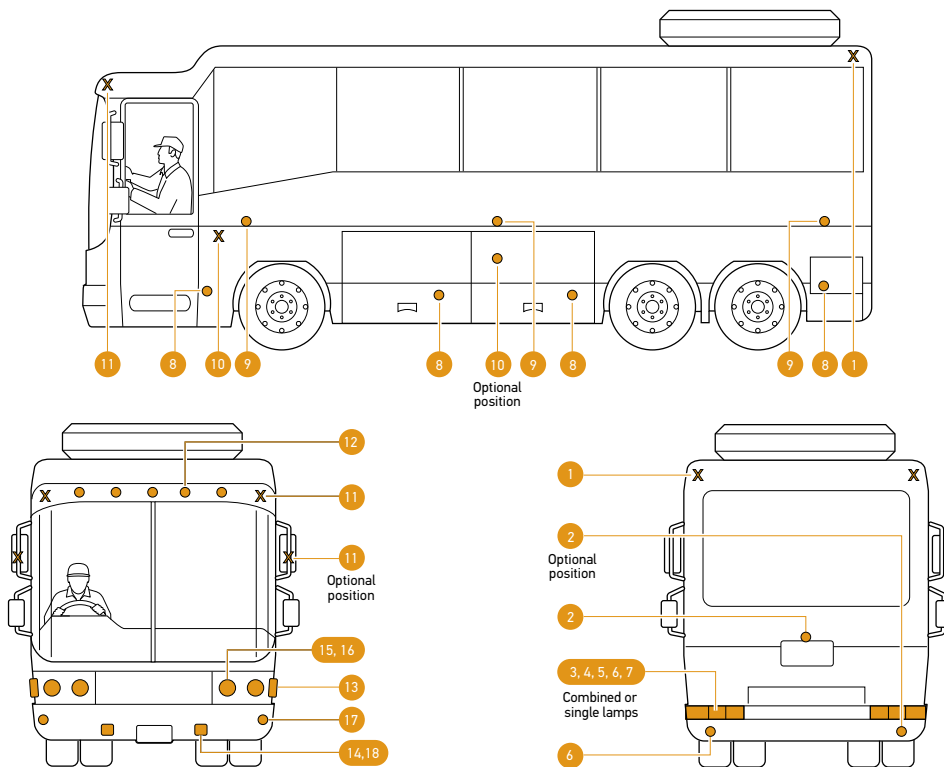
- 8 ADR 47/00 Side Retro Reflectors
- 9 ADR 45/01 or 74/00 Side Markers
- 10 ADR 6/00 Supplementary Side Direction Indicators

FRONT

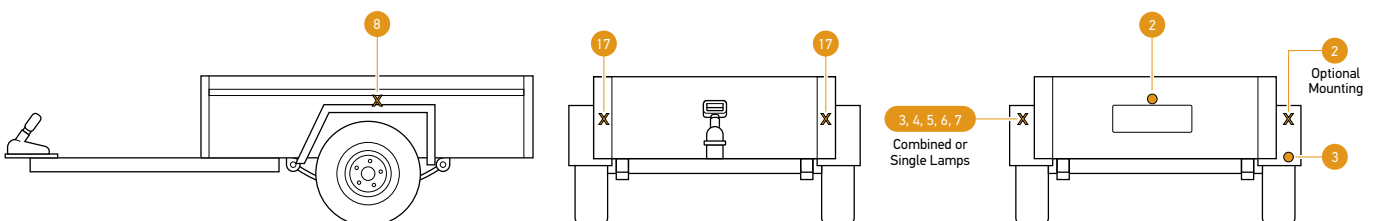
- 11 ADR 49/00 Front End Outline Lamps
- 12 ADR 45/01 Cab Markers (optional)
- 13 ADR 6/00: Cat.1 Front Direction Indicators
- 14 ADR 50/00 Front Fog Lamps (optional)
- 15 ADR 46/00 Headlamps
- 16 ADR 49/00 Front Position Lamps
- 17 ADR 47/00 Front Retro Reflectors
- 18 ADR 76/00 Daytime Running Lamps (optional)
- 19 Driving Lamps (optional)

*Optional on motor vehicles. ADR 13/00 permits up to 4 driving lamps that do not have to comply with ADR 46/00

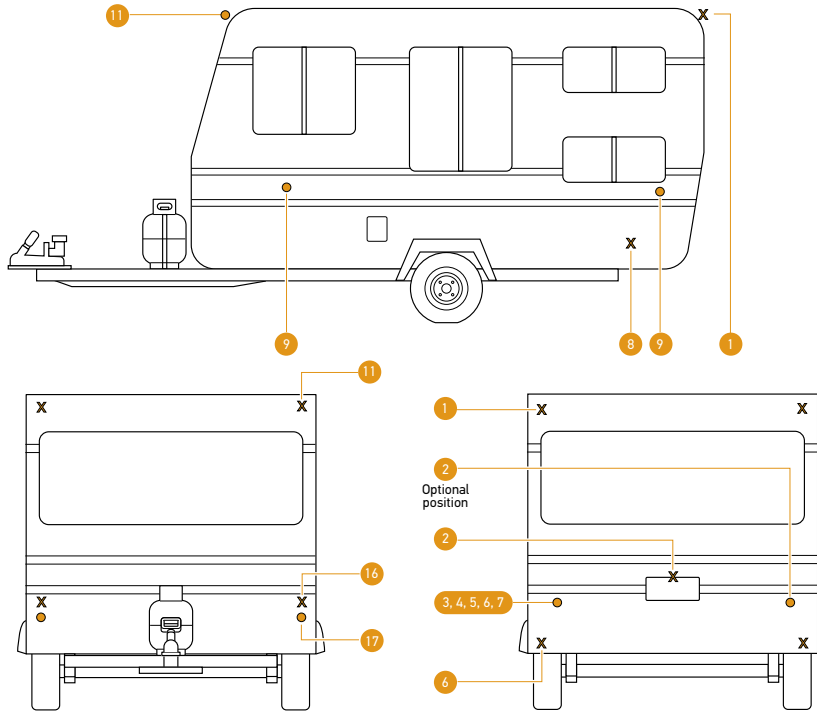
COACH



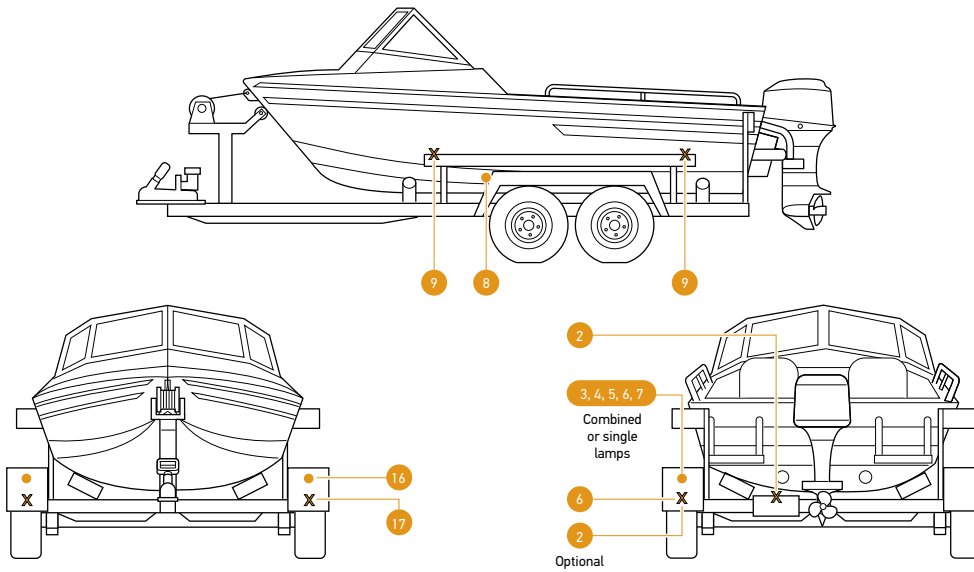
SMALL TRAILER



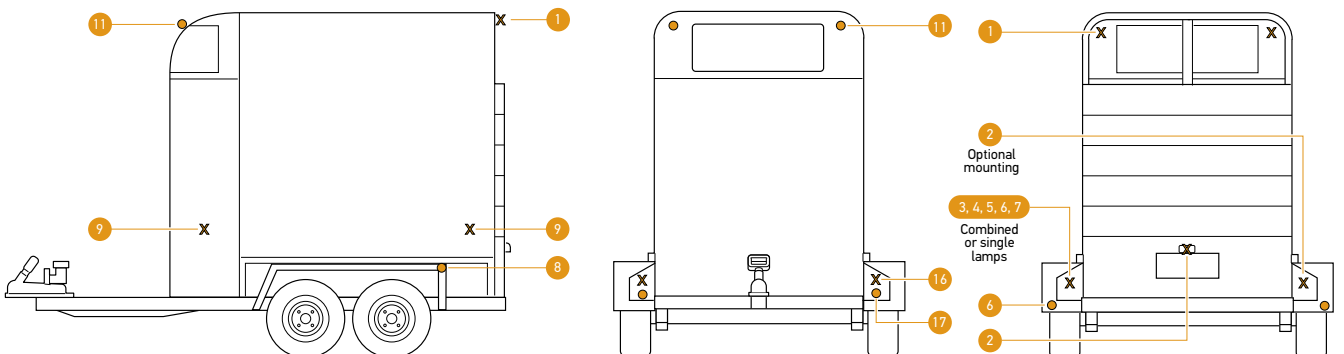
CARAVAN



BOAT TRAILER



HORSE FLOAT



Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1000	012614-00	76/00	Daytime Running Lamp	R1221	P21W	DRL*1000*B	27424	911-353-51	RL 008701
1003	980608-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1003*A	41607	980-703-11	9060
1004	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	E24 0002 (0670)
HM1535DRL	980670-80								
1005	980680-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-12	E24 0001 (0680)
1005-24V	980680-50								
1006	980690-50	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1006*A	42763	980-703-47	0690
1007-24V	980690-40	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-53	0690
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854		
1008	980680-11	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-68	E24 0001 (0680)
1008-24V	980680-61								
1009	980880-00	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-04	0880
1009-24V	980880-10					DRL*1009-24V*A	44202		
1009V	980880-40	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-92	0880 B
1009V-24V	980880-50					1009V-24V*DRL*C	45965		
1013	980970-00	76/00	Daytime Running Lamp	LED	N/A LED	*DRL*1013*A	44776	958-780-44	0970
1013-24V	980970-50					*DRL*1013-24V*A	44783		
1015	951067-02	46/00	Headlamp	Sealed Beam	N/A	HL*1015*A	15256	911-351-01	86302
1027	003434-18	46/00	Headlamp	XD1260/55	H4	HL*1027*A	15311	911-352-79	17016
		49/00	Front Position Lamp	HL124	T4W	FP*1027*A	15317		
1028	007834-00	46/00	Headlamp (Low/Dipped Beam)	C1255	H1	HL*1028*A	32013	911-353-80	550
1029	008193-00	46/00	Headlamp (Low/Dipped Beam)	CA1255	H7	HL*1029*A	32008	911-353-81	917
1030	008191-00/02	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1030*A	32009	911-353-79	917
		49/00	Front Position Lamp (1030 only)	HL124	T4W	FP*1030*A	32014		
1031	008191-04	46/00	Headlamp (High/Main Beam)	CA1255	H7	HL*1031*A	32010		
1041	003177-06	46/00	Headlamp	C1255	H1	HL*1041*A	15071	911-351-06	24504
1042	003177-30	46/00	Headlamp	XD1260/55	H4	HL*1042*A	15072	911-351-07	7197R20
1043	003427-04	46/00	Headlamp	XD1260/55	H4	HL*1043*A	15198	911-351-08	17009
		49/00	Front Position Lamp	HL124	T4W	FP*1043*A	15197		
1044	003177-51	46/00	Headlamp	XD1260/55	H4	HL*1044*A	15073	911-351-10	7197R20
		49/00	Front Position Lamp	HL124	T4W	FP*1044*A	15074		
1053	114155-00	46/00	Headlamp	C1255	H1	HL*1053*A	15075	911-351-14	14464R8
1054	114178-00	46/00	Headlamp	C1255	H1	HL*1054*A	15092	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*1054*A	15093		
1055 & 1055HD	002850-06 & 002850-21	46/00	Headlamp	XD1260/55	H4	HL*1055*A	15088	911-351-16	17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*1055*A	15089		
1056	002395-84	46/00	Headlamp	XD1260/55	H4	HL*1056*A	15094	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*1056*A	15095		
1058 & 1058HD	002395-13 (950519-00) & 002395-26	46/00	Headlamp	XD1260/55	H4	HL*1058*A	15096	911-351-18	53
		49/00	Front Position Lamp	HL124	T4W	FP*1058*A	15097		
1058LED	958307-01	46/00	Headlamp	LED	N/A LED	N/A ECE	A02 HCR 01 PL RL 00 E11 12.5 6080	958-315	53
		49/00	Front Position Lamp	LED	N/A LED	N/A ECE			
		76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE			
1107	956329-00	50/00	Front Fog Lamp	YC1255	H3	FF*1107*A	15127	911-351-29	8361
1108	005750-04	50/00	Front Fog Lamp	YC1255	H3	FF*1108*A	15137	911-351-30	18213R19
1109	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*1109*A	15134	911-351-31	18216R19
1110	005860-00	50/00	Front Fog Lamp	YC1255	H3	FF1110*A	15218	911-351-32	18227
1111	006300-07	50/00	Front Fog Lamp	YC1255	H3	FF*1111*A	15255	911-351-33	18231
1122	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
1123	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
1162	004700-02	50/00	Front Fog Lamp	YC1255	H3	FF*1162*A	15136	911-351-38	8390R19
1307	956329-01	46/00	High Beam Headlamp	YC1255	H3	HL*1307*A	15121	911-351-42	24556R8
1308	005750-30	46/00	High Beam Headlamp	YC1255	H3	HL*1308*A	15139	911-351-43	0444404R8
1309	005700-11	46/00	High Beam Headlamp	YC1255	H3	HL*1309*A	15132	911-351-44	0444410R8
1310	005860-03	46/00	High Beam Headlamp	YC1255	H3	HL*1310*A	15220	911-351-45	044442

3RD EDITION ADR REFERENCE GUIDE

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1311	006300-12	46/00	High Beam Headlamp	YC1255	H3	HL*1311*A	15254	911-351-46	0444444
1322	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
1323	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
1324	001951-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 12.5 E1 3221	HKG 460 845-16 & Refer ADR 13/00	E1 3221 R112
1325	001952-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 17.5 E1 3222	HKG 460 845-16 & Refer ADR 13/00	E1 3222 R112
1326	001953-00	46/00	High Beam Headlamp	YC1255	H3	N/A ECE	HR 01 12.5 E1 3223	HKG 460 845-16 & Refer ADR 13/00	E1 3223 R112
1358	958307-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E11 30 01 7501	958-315-65	E11 30 01 7501
1363	004700-15	46/00	High Beam Headlamp	CD1255	H2	HL*1363*A	15141	911-351-51	34518R8
1373	008273-04	77/00	High Beam Headlamp	XN4000	D2S	HL*1373*A	26742	911-353-41	00DR 999
1376BLUE	007560-13	46/00	High Beam Headlamp	C1255	H1	HL*1376*B	32428	911-353-85	44484
		49/00	Front Position Lamp	W125	W5W	FP*1376*A	32432		
1376BLUEHB	007560-32	46/00	High Beam Headlamp	C1255	H1	HL*1376HB*A	36324	911-355-08	1928
		49/00	Front Position Lamp	W125	W5W	FP*1376HB*A	36325		
1378	009094-02	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	911-353-94	00 1901
1378CHROME	009094-03								
1382	009094-141	77/00	High Beam Headlamp	XN4001	DIS	HL*1382*B	36044	911-355-07	02 2087
1384	009094-311	77/00	High Beam Headlamp	XN4001	DIS	N/A ECE	E1 002087	HKG 460 818-21 & Refer ADR 13/00	E1 002087
1389LED	011002-21	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 50 E1 3967	HKG 460 818-26 & Refer ADR 13/00	E1 3967
		49/00	Front Position Lamp				PL 02 A E1 3161		
1393	010119-01	46/00	High Beam Headlamp	C1255	H1	HL*1378*A	33671	HKG 460 719-11 & Refer ADR 13/00	00 1901
1393CHROME	010119-11					N/A ECE	HR 001901 E1 37.5		
1394LED	011815-00	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	HR PL 01 45 E1 3738	HKG 460 818-29 & Refer ADR 13/00	E1 3738
1394LEDHD	011815-03								
1395	958 040-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R-010008	460 881-50	E24 20 0008
1395HD	958 040-03						460 881-51		
1396	958 040-06	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 112R-010009	460 881-50	E24 30 0009
1396HD	958 040-04						460 881-51		
1397HD	958 040-12	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 10R-01 0012	460 881-51	E24 25 0012
1398HD	958 040-02	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E24 10R-01 0013	460 881-51	E24 37.5 0013
1FA 996 197-151	996 197-15	46/00	High Beam Headlamp	LED	N/A LED	N/A ECE	E1 4517	HKG	E1 4517
1403	003030-17	1/00	Reversing Lamp	R1221	P21W	RL*1403*A	30830	911-353-73	8726
1405	003014-09	1/00	Reversing Lamp	R1221	P21W	RL*1405*A	15131	911-351-53	8703R23
		1/00	Reversing Lamp	R1221	P21W	RL*1406*A	15130	911-351-54	8728R23
1406	003236-31	49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*1406*B	15292		
1408	997506-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1408*A	37918	911-355-11	23005
1410	005860-15	1/00	Reversing Spotlamp	YC1255	H3	RL*1410*A	37919	911-355-12	2186
1430-H	959070-50	1/00	Reversing Lamp	LED	N/A LED	RL*1430-H*A	36417	959-150-10	9060
1430-V	959070-55					RL*1430-V*A	36418		
1433	959820-00	1/00	Reversing Lamp	LED	N/A LED	RL*1433*A	33190	959-149-69	9020
1446-H	959041-30	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
1446-V	959041-40					RL*1446-V*A	36243		
1447L	959041-37	1/00	Reversing Lamp	LED	N/A LED	1447*RV*C	45662	958-780-84	9040
1447R	959041-36								
1461	980762-01	1/00	Reversing Lamp	LED	N/A LED	RL*1461*A	45442	958-780-72	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
1465	959930-00	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-04	9930
1467	959930-11	1/00	Reversing Lamp	LED	N/A LED	RL*1465*A	35981	959-150-18	
1468	980889-00	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	0880D
1468-24V	980889-20	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0027	958-315-25	

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
1468V	980889-10	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	0880E
1468V-24V	980889-30	1/00	Reversing Lamp	LED	N/A LED	N/A ECE	E24 23R-0028	958-315-26	
1490	959010-50	1/00	Reversing Lamp	LED	N/A LED	RL*1490*A	36253	959-150-16	9010
1547LED-RE	996376-09	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 3902	HFA 460 845-18 / 04.14 & Refer ADR 13/00	003902
1551LED-RE	996188-12	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 3249	HFA 460 845-15 / 02.12 & Refer ADR 13/00	003249
1563LED-RE	996284-50	1/00	Reversing Spotlamp	LED	N/A LED	N/A ECE	00 E1 4576	HFA 460 845-20 / 11.16 & Refer ADR 13/00	004576
2006	910315-04	45/01	Side Marker Lamp	L125	C5W	SM*2006*A	15148	911-351-60	910320
2009	900711-26	45/01	Side Marker Lamp	L125	C5W	SM*2009*A	15245	911-351-63	900627
		49/00	Front Position Lamp	L125	C5W	FP*2009*A	15307		
2019	950059-04	45/01	Cab Marker Lamp	GD125	R5W	CM*2019*A	15217	911-351-66	950065
		49/00	Front End Outline Lamp	GD125	R5W	FE0*2019*A	15356		
2026 & HM2026 & HM2026D	959660-30	45/01	Cab Marker Lamp	LED	N/A LED	CM*2026*A	25025	959-149-17	9560
		6/00:Cat 5	Supp. Side Direction Indicator Lamp			SDI*2026*A	25725		
2027	980660-10	45/01	Cab Marker Lamp	LED	N/A LED	CM*2027*A	42856	980-703-13	6600
2027P		6/00:Cat 5	Supp. Side Direction Indicator Lamp			SDI*2027*A	42857		
2029	900139-01	45/01	Side Marker Lamp	L125	C5W	SM*2029*A	15143	911-351-69	910049
2030	900139-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	L125	C5W	FL*2030*A	15146	911-351-70	910049
2031	959700-00	6/00:Cat 5	Supp. Side Direction Indicator Lamp	LED	N/A LED	SDI*2031*A	30768	959-149-55	9700
2033	959700-20	45/01	Side Marker Lamp	LED	N/A LED	SM*2033*A	31432	959-149-58	9700
2037	900139-04	45/01	Side Marker Lamp	L125	C5W	SM*2037*A	15144	911-351-72	910049
2041LED-H	2041LED-H	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
2041LED-V	2041LED-V					RL*1446-V*A	36243		
2042	905055-01	45/01	Side Marker Lamp	M123	N/A Type M123	SM*2042*A	15192	911-351-74	910089
2043	910663-09	1/00	Reversing Lamp	R1221	P21W	RL*2043*A	15111	911-351-75	R.D.68158
2044	905055-02	6/00:Cat 5	Supp. Side Direction Indicator Lamp	M123	N/A Type M123	DI*2044*A	16360	911-351-83	910089
2046 & 2046PC	958607-02	1/00	Reversing Lamp	R1221	P21W	RL*2046*A	15329	911-352-89	HNZ01
		49/00	Front Position Lamp or Front End Outline Lamp	G125	R5W	FP*2046*A	15352		
2047	963639-00	74/00 SM1	Side Marker Lamp : SM1	LED	N/A LED	N/A ECE	SM1 00 E24V5881	Refer ADR 13/00	SM1 00 E24 5881
		47/00	Retro Reflector (Amber Side)	N/A	N/A				
2048	963639-01	74/00 : SM1	Side Marker Lamp : SM1	LED	N/A LED	N/A ECE	SM1 00 E24V5881	Refer ADR 13/00	SM1 00 E24 5881
		47/00	Retro Reflector (Amber Side)	N/A	N/A				
2051 & HM2051 & HM2051D	959570-30	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2051*A	25032	959-149-19	9560
2051GMD	959570-10	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2051X*A	40676	959-150-79	9560
2053 & 2053PC & HM2053PC & HM2053PCD & 2053GMD	959660-50	45/01	Side Marker Lamp	LED	N/A LED	SM*2053*A	24743	959-149-16	9560
2054 & HM2054 & HM2054D	959570-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0051	959-149-25	A02 E24 0051
2054GMD	959570-50	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2054X*A	40677	959-150-80	9560
2055	959590-40	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	N/A ECE	A 02 E24 0054	959-149-26	A02 E24 0054
2056	959590-30	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2056*A	27380	959-149-38	9590
2057	959650-00	45/01	Cab Marker Lamp	LED	N/A LED	CM*2057*A	27432	959-149-42	9650
2058	980660-00	45/01	Side Marker Lamp	LED	N/A LED	SM*2058*A	41597	980-703-13	6600
2058P	980660-02								
2059	980855-01	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	FP*2059*A	45233	958-780-67	0855
2059S	980855-02								
2060	980855-20	49/00	Front End Outline Lamp	LED	N/A LED	FE0*2060*A	45630	958-780-70	0855
2060S	980855-21								

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Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification			
2061	980660-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	TBA	TBA	958-780-95	6600			
2061P	980660-21											
2062	980660-22	49/00	Front End Outline Lamp	LED	N/A LED	TBA	TBA	958-780-96	6600			
2062P	980660-30											
2063	900741-25	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2063*A	15282	911-351-76	10833			
2064	003014-07	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2064*A	15177	911-351-77	11793R7			
2066	006679-00	49/00	Front Position Lamp or Front End Outline Lamp	G1210	R10W	FP*2066*A	15253	911-351-79	0121691			
2067	006679-01	45/01	Cab Marker Lamp	G125	R5W	CM*2067*A	15361	911-353-23	TV25			
		49/00	Front End Outline Lamp	G125	R5W	FEO*2067*A	15360					
2071	980990-40	49/00	Front End Outline Lamp	LED	N/A LED	2071*FEOM*C	45943	958-780-90	0990			
2073	980990-00	45/01	Side Marker Lamp	LED	N/A LED	2073*SML*C	45809	958-780-87	0990			
2074	980990-20	49/00	Front Position Lamp or Front End Outline Lamp	LED	N/A LED	2074*FEOM*C	45944	958-780-89	0990			
2076	980990-10	45/01	Cab Marker Lamp	LED	N/A LED	2076*ECM*C	45810	958-780-88	0990			
		6/00:Cat 5	Supp.Side Direction Indicator Lamp			2076*SDI*C	45811					
2083	980868-04	45/01	Side Marker Lamp	LED	N/A LED	2083*SM*C	47116	958-315-32	0868			
2083S	980868-06											
2101	002939-17	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2101*A	29439	911-353-58	32710			
2103-12V	008260-01	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2103*A	32646	911-353-90	01989			
2103-24V	008260-00											
2105	959932-20	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-24	9930			
2105CLR	959932-21	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105C*A	40148					
2106-CS	959932-13	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	1 01 E24 5851	959-150-92	1 01 E24 5851			
		49/00	Front Position Lamp				A 02 E24 5851		A 02 E24 5851			
2107	959011-10	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2107*A	41601	980-703-19	9010			
2107CLR	959011-11		DI*2107C*A			41609						
2108-GMD	980691-11	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-70	0690			
2108-GMD24V	980690-00	49/00	Front Position Lamp	LED	N/A LED	N/A ECE	E24 5854	980-703-29	0690			
		76/00	Daytime Running Lamp									
2109	980888-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109*FDI*C	46349	958-315-01	0880			
2109-24V	980888-40		210924H*DI*C			46348						
2109V	980888-50	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	2109V*FDI*C	46347	958-315-20	0880B			
2109V-24V	980888-60		210924V*DI*C			46346						
2110-12V	980819-30	6/00:Cat 5	Front Direction Indicator Lamp	LED	N/A LED	12V-CRN-06A	49241	958-315-80	0880C			
		49/00	Front Position Lamp			12V-CRN-49C	49263					
2110-24V	980819-40	6/00:Cat 5	Front Direction Indicator Lamp	LED	N/A LED	12V-CRN-06A	49252	958-315-80	0880C			
		49/00	Front Position Lamp			12V-CRN-49C	49264					
2126	905626-04	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2126*A	15271	911-351-98	905628			
		6/00:Cat 5	Supp.Side Direction Indicator Lamp			G125				R5W	FL*2126*B	15300
2127	900763-29	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2127*A	15272	911-351-99	R.D.10833			
		6/00:Cat 5	Supp.Side Direction Indicator Lamp			G125				R5W	FL*2127*B	15301
2128	900763-30	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2128*A	15273	911-352-00	R.D.10833			
		6/00:Cat 5	Supp.Side Direction Indicator Lamp			G125				R5W	SDI*2128*A	15306
2128LED	959932-30	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-25	9930			
2129	900763-31	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp. Side Direction Indicator Lamp	FD1221	P21W (DC)	DI*2129*A	15304	911-352-76	R.D.10833			
		6/00:Cat 5	Supp. Side Direction Indicator Lamp			GD125				R5W (DC)	DI*2129*B	15305
2130	959011-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2130*A	30649	959-149-50	9010			
2133	959822-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133*A	33191	959-149-71	9020			
2133CS	959822-60											
2133-24V	959021-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2133-24V*A	30442	959-149-53	9020			
2135 & 2135PC	900739-10	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2135*A	15270	911-352-02	10833			
		49/00	Front End Outline Lamp			L125				C5W	FEO*2135*A	25578
2135LED	959932-31	6/00:Cat 1	Front Direction Indicator Lamp	LED	N/A LED	DI*2105M*A	36805	959-150-26	9930			

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2136	900741-21	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2136*A	15211	911-352-03	10833
		49/00	Front End Outline Lamp	L125	C5W	FE0*2136*A	25579		
2138	959031-00	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	958-780-39	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948			
2140	900947-00	6/00:Cat 1	Front Direction Indicator Lamp	K1221	C21W	FL*2140*A	15190	911-352-04	52612
		49/00	Front End Outline Lamp	L125	C5W	FE0*2140*A	25580		
2141	900947-05	49/00	Front Position Lamp or Front End Outline Lamp	L125	C5W	FP*2141*A	15176	911-352-05	52612
2142	905141-02	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2142*C	15318	911-352-06	53174
		6/00:Cat 5	Supp.Side Direction Indicator Lamp	G125	R5W	FL*2142*B	15203		
		6/00:Cat6	Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2142*D	30062		
2143	910663-08	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2143*A	15110	911-352-07	R.D.68158
		49/00	Front End Outline Lamp	G125	R5W	FE0*2143*A	25523		
2144LED-H	2144LED-H	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040
2145 & 2145PC	958607-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2145*A	15330	911-352-90	HNZ01
		49/00	Front End Outline Lamp	G125	R5W	FE0*2145*A	25577		
2146-H	959041-10	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2146-H*A	26179	959-149-30	9040
2146-HCS	959041-51					DI*2146-H24*A	34498	959-150-57	
2146-H24	959041-50					DI*2146-V*A	26180	959-149-88	
2146-V	959041-20					DI*2146-VCS*A	40650	959-149-30	
2146-VCS	959041-71					DI*2146-V24*A	36718	959-150-57	
2146-V24	959041-70							959-149-88	
2147	003014-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2147*A	15168	911-352-11	32619R6
		49/00	Front End Outline Lamp	G125	R5W	FE0*2147*A	25759		
2148	003014-11	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	FL*2148*A	15170	911-352-12	32661R6
		49/00	Front End Outline Lamp	G125	R5W	FE0*2148*A	25761		
2149	003236-32	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2149*A	15171	911-352-13	6R0132764
		49/00	Front End Outline Lamp	G125	R5W	FE0*2149*A	25760		
2150	005603-00	6/00:Cat 1 & 6/00:Cat 5	Front Direction Indicator Lamp and Supp.Side Direction Indicator Lamp	R1221	P21W	FL*2150*A	15172	911-352-14	6R0142748
		49/00	Front End Outline Lamp	G125	R5W	FE0*2150*A	25763		
2151	959070-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44206	958-780-37	9060
						24V Horiz	44192		
						12V Vert	44193		
						24V Vert	44194		
2151-H	959070-35	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	FL*2151-H*A	36420	959-150-11	2a 01 E24 5850
2151-HCS	980607-00					FL*2151-V*A	36421		9060
2151-V	959070-25					DI*2151-VCS*A	2a 01 E24 5850	959-150-56	2a 01 E24 5850
2151-VCS	980607-50								
2153	006692-01	6/00:Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2153*B	30495	911-353-69	52621
2154	006692-02	6/00:Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2154*B	30497	911-353-70	
2155	008355-00	6/00:Cat 6	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2155*A	30498	911-353-71	1059
2155CLR	008355-01	6/00:Cat 6	Supp.Side Direction Indicator Lamp	RY1221	PY21W	SDI*2155CLR*A	E1 011848		1848
2156	959075-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156*A	26483	959-149-28	9074
2156-24V	959075-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2156-24V*A	26104	959-149-29	
2157	003236-17	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2157*A	30405	911-353-72	42730
2158	004119-02	6/00:Cat 1	Front Direction Indicator Lamp	R1221	P21W	DI*2158*A	31781	911-353-78	536
		6/00:Cat 5	Supp.Side Direction Indicator Lamp	R1221	P21W	SDI*2158*A	31802		
		49/00	Front Position Lamp	W125	W5W	FP*2158*A	31807		
2161	980761-01	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443	958-780-73	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2161-CS	980761-02	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2161*A	45443	958-780-74	0760
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		

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Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2165	959932-50	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-*B	36056	959-150-06	9930
2167	959932-71	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2165-*B	36056	959-150-22	9930
2168	980888-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168*A	46435	958-315-02	0880C
2168-24V	980888-20	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2168-24V*A	46434		
2BM 011 788-031	011788-03	6/00:Cat 6	Supp. Side Direction Indicator Lamp	LED	N/A LED	N/A ECE	E11 6R-017506	HKG 460 903-61/11.13 Refer ADR 13/00	01 6 E11 7506
2BM 011 788-021	011788-02								
2305	345600-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24 5881
		47/00	Retro Reflector (Red/Rear)	N/A	N/A				
2306	345600-31	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	R02-E24 5881	Refer ADR 13/00	R02-E24 5881
		47/00	Retro Reflector (Red/Rear)	N/A	N/A				
2307 & HM2307 & HM2307D	959560-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307*A	25009	959-149-18	02 7574
2307GMD	959560-10	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RP*2307X*A	40680	959-150-81	9560
2308	959 610-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	N/A ECE	E4 7R 02 7597	959-149-20	E4 7R 02 7597
2309	959700-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2309*A	31431	959-149-59	9700
2310	980855-30	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	RR*2310*A	45631	958-780-71	0855
2310S	980855-31								
2311	980660-40	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2311*RP*C	46859	958-780-71	6600
2311P	980660-42								
2312	980990-60	49/00	Rear Position Lamp or Rear End Outline Lamp	LED	N/A LED	2312*RE0M*C	45945	958-780-91	0990
2314 & 2314PC	900739-11	49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2314*A	15316	911-352-83	10833
2315	900741-22					RR*2315*A	15310	911-352-84	
2317	959030-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948	959-149-05	9030
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
		49/00	Stop : Horizontal	LED	N/A LED	ST*2317H*A	42579		
		49/00	Rear Position : Vertical	LED	N/A LED	RP*2317V*A	42578		
		49/00	Stop : Vertical	LED	N/A LED	ST*2317V*A	42582		
2318	980887-00	49/00	Stop Lamp	LED	N/A LED	SL*2318*A	46360	958-780-99	0880C
			Rear Position Lamp			RP*2318*A	46351		
2318-24V	980887-20	49/00	Stop Lamp	LED	N/A LED	SL*2318-24V*A	46361	958-780-99	0880C
			Rear Position Lamp			RP*2318-24V*A	46353		
2319	910664-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2319*A	15149	911-352-16	013051
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2319*A	15151		
2320LED-H	2320LED-H	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9040
			Rear Position Lamp			RP*2332-H24*A	34502		
2321 & 2321PC	958606-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2321*A	15327	911-352-91	HNZ01
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2321*A	15328		
2322	003236-34	49/00	Rear Position Lamp or Rear End Outline Lamp	G125	R5W	RR*2322*A	15173	911-352-18	7R0111591
2323	003236-33	49/00	Stop Lamp	R1221	P21W	RR*2323*A	15174	911-352-19	11589
2324	006679-02	49/00	Rear Position Lamp or Rear End Outline Lamp	G1210	R10W	RR*2324*A	15251	911-352-20	0131470
2325	003014-05	49/00	Rear Position Lamp or Rear End Outline Lamp	L125	C5W	RR*2325*A	15252	911-352-21	0131418
2330	959060-00	49/00	Rear Position: Horizontal	LED	N/A LED	RP*2330H1*A	42558	959-149-00	9060
			Stop: Horizontal			ST*2330H1*A	42650		
			Rear Position: Vertical			RP*2330V1*A	42559		
			Stop: Vertical			ST*2330V1*A	42561		
2330-H	959-060-35	49/00	Stop Lamp	LED	N/A LED	SL*2330-H*A	36428	959-150-12	9060
			Rear Position Lamp			RP*2330-H*A	36426		
2330-V	959-060-25	49/00	Stop Lamp	LED	N/A LED	SL*2330-V*A	36429		
			Rear Position Lamp			RP*2330-V*A	36427		

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2332-H24	959040-5x	49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	9060
			Rear Position Lamp			RP*2332-H24*A	34502		
2332-V24	959040-70	49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	9060
			Rear Position Lamp			RP*2332-V24*A	36721		
2334	959074-50	49/00	Stop Lamp	LED	N/A LED	SL*2334*A	26486	959-149-27	9074
			Rear Position Lamp			RP*2334*A	26484		
2334-24V	959074-00	49/00	Stop Lamp	LED	N/A LED	SL*2334-24V*A	26152	959-149-27	9074
			Rear Position Lamp			RP*2334-24V*A	26151		
2361	980760-01	49/00	Stop Lamp	LED	N/A LED	ST*2361*A	45634	958-780-75	0760
			Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2365	959931-00	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-05	9930
			Rear Position Lamp			RP*2365*B	36078		
2366	959821-00	49/00	Stop Lamp	LED	N/A LED	SL*2366*A	33196	959-149-70	9020
			Rear Position Lamp			RP*2366*A	33198		
2366-24V	959020-00	49/00	Stop Lamp	LED	N/A LED	SL*2366-24V*A	30445	959-149-52	9020
			Rear Position Lamp			RP*2366-24V*A	30443		
2367	959931-11	49/00	Stop Lamp	LED	N/A LED	ST*2365*B	36250	959-150-20	9930
			Rear Position Lamp			RP*2365*B	36078		
2368	900807-01	6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2368*A	15278	911-352-26	69079
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2368*B	15279		
		48/00	Licence Plate Lamp	L1210	N/A	LP*2368*B	15289		
		49/00	Rear Position / Stop Lamp	L1210/ K1221	N/A/ C21W	RR*2368*B	16361		
2375-12V	980819-00	6/00:Cat2a	Rear Direction Indicator Lamp				E24 6R-01 5902		
2375-24V	980819-22	49/00	Stop Lamp	LED	N/A LED	N/A ECE	E24 7R-01 5902	958-315-70	0880H
			Rear Position Lamp						
2377	980710-01	6/00:Cat2a	Rear Direction Indicator Lamp			2377*RD1*C	45253	958-780-66	0710
		49/00	Stop Lamp	LED	N/A LED	2377*ST*C	45256		
			Rear Position Lamp			2377*RP*C	45254		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2377*RR*C	45255		
2378	980613-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2378*RD1*C	45258	958-780-63	
2378-CS	980613-20	49/00	Stop Lamp	LED	N/A LED	2378*ST*C	45260	958-780-64	0710
2378DT	980602-00		Rear Position Lamp			2378*RP*C	45259	958-780-65	
2378DTCS	980602-20		Rear Position Lamp			2378*07*RP*C	45257	958-780-68	
2379 & HM2379 & HM2379D	959050-00	6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	DI*2379*A	30916	959-149-47	9050
		49/00	Stop Lamp	LED	N/A LED	SL*2379*A	30919		
2379-CS	959050-40	49/00	Rear Position Lamp	LED	N/A LED	RP*2379*A	30917	959-150-55	
2380	980603-50	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2380*A	43630		
HM2380	980603-51	49/00	Stop Lamp	LED	N/A LED	SL*2380*A	43632	958-780-05	9050
HM2380D	980603-52		Rear Position Lamp			RP*2380*A	43631		
2380GMD	980603-55	1/00	Reversing Lamp	LED	N/A LED	RL*2380*A	43628	958-780-05	9050
2380DT	980615-01								
2380DTGMD	980615-05								
HM2380DT	980615-02								
2383-24VCS	980613-51	6/00:Cat 2a	Rear Direction Indicator Lamp				E24 6R-015894	958-315-28	
2383-DT24VCS	980602-51	49/00	Stop Lamp	LED	N/A LED	N/A ECE	E24 7R-025894	958-315-27	0710
		49/00	Rear Position Lamp						
		1/00	Reversing Lamp						
2384	003014-14	48/00	Licence Plate Lamp	L125	C5W	LP*2384*A	15175	911-352-30	231453
		49/00	Rear Position / Stop Lamp	L125/R1221	C5W/ P21W	RR*2384*A	15167		
2390	959010-00	49/00	Stop Lamp	LED	N/A LED	SL*2390*A	30651	959-149-51	9010
			Rear Position Lamp			RP*2390*A	30650		

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Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2391	980980-00	1/00	Reversing Lamp			2391*RV*C	45251	958-780-58	0980
		6/00:Cat 2a	Rear Direction Indicator Lamp	LED	N/A LED	2391*RDI*C	45258		
		49/00	Stop Lamp			2391*ST*C	45262		
			Rear Position Lamp			2391*RP*C	45261		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2391*RR*C	45250		
2392L	980980-01	1/00	Reversing Lamp	LED	N/A LED	2392*RV*C	45267	958-780-59	0980
2392R	980980-02	6/00:Cat 2a	Rear Direction Indicator Lamp			2392*RDI*C	45264		
		49/00	Stop Lamp	LED	N/A LED	2392*STC	45268		
			Rear Position Lamp			2392*RP*C	45265		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2392*RR*C	45266		
48/00	Licence Plate Lamp	N/A	N/A	2392*LP*C	45263				
2394	980720-00	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2394*B	42034	980-703-20	0720
		49/00	Stop Lamp	LED	N/A LED	SL*2394*A	42037		
		49/00	Rear Position Lamp			RP*2394*A	42036		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
2394-12V	980720-20	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2394*B	42034	980-703-56	0720
		49/00	Stop Lamp	LED	N/A LED	SL*2394*A	42037		
			Rear Position Lamp			RP*2394*A	42036		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A ECE	1A E24 5860		
2395	980720-40	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2395*B	42030	980 703-21	0720
		49/00	Stop Lamp	LED	N/A LED	SL*2395*C	42179		
			Rear Position Lamp			RP*2395*C	42178		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	2395*RR*C	46508		
		48/00	Licence Plate Lamp	LED	N/A LED	LP*2395*C	42175		
2395-12V	980720-60	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2395*B	42030	958-780-57	0720
		49/00	Stop Lamp	LED	N/A LED	SL*2395*C	42179		
			Rear Position Lamp			RP*2395*C	42178		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	N/A ECE	1A E24 5860		
		48/00	Licence Plate Lamp	LED	N/A LED	LP*2395*C	42175		
2396	905002-01	6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2396*A	15239	911-352-31	54519
		48/00	Licence Plate Lamp	L125	C5W	LP*2396*A	15280		
		49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2396*A	15238		
2397	905168-00	6/00:Cat 2a	Rear Direction Indicator Lamp	K1221	C21W	FL*2397*A	15258	911-352-32	953811
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2397*A	15261		
		49/00	Rear Position / Stop Lamp	L125/K1221	C5W/ C21W	RR*2397*A	15265		
2399	959010-20	6/00:Cat 2a	Rear Direction Indicator Lamp			DI*2399*A	37114	959-150-30	9010
		49/00	Stop Lamp	LED	N/A LED	SL*2399*A	37116		
			Rear Position Lamp			RP*2399*A	37115		
2400	910036-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2400*A	15260	911-352-34	953811
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2400*A	15262		
		48/00	Licence Plate Lamp	G1210	R10W	LP*2400*A	15263		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2400*A	15267		
2414	604011	1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-56	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		
2415	604012	1/00	Reversing Lamp	R1221	P21W	RL*2414*A	29428	911-353-57	9385/9531
		6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2414*A	29426		
		49/00	Stop Lamp	R1221	P21W	SL*2414*A	29429		
		49/00	Rear Position Lamp	G1210	R10W	RP*2414*A	29430		

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
2416LED	2416LED	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-39	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
49/00	Stop : Horizontal	ST*2317H*A	42579						
49/00	Rear Position : Vertical	RP*2317V*A	42578						
49/00	Stop : Vertical			ST*2317V*A	42582				
2419	003184-03	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2419*A	15160	911-352-42	7R0153253
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2419*A	15161		
2420	003184-10	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2420*A	15223	911-352-43	7R0153253
		48/00	Licence Plate Lamp	G1210	R10W	LP*2420*A	15159		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2420*A	15222		
2421	004623-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	FL*2421*A	15208	911-352-44	7R01763
		48/00	Licence Plate Lamp	G1210	R10W	LP*2421*A	15210		
		49/00	Rear Position / Stop Lamp	G1210/ R1221	R10W/ P21W	RR*2421*A	15209		
2422	958562-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2422*A	15320	911-352-81	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2422*A	15324		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2422*A	15323		
2422LED	2422LED	6/00:Cat2a	Rear Direction Indicator Lamp	LED	N/A LED	12V Horiz	44203	959-150-38	9030
						24V Horiz	44204		
						12V Vert	44205		
						24V Vert	44209		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2317*A-1	22948		
		49/00	Rear Position : Horizontal	LED	N/A LED	RP*2317H*A	42577		
Stop : Horizontal	ST*2317H*A		42579						
Rear Position : Vertical	RP*2317V*A		42578						
49/00	Stop : Vertical			ST*2317V*A	42582				
2423	958616-00	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2423*A	15338	911-352-92	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2423*A	15339		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2423*A	15340		
2424	958616-01	6/00:Cat 2a	Rear Direction Indicator Lamp	R1221	P21W	DI*2424*A	15342	911-352-93	HNZ01
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2424*A	15343		
		49/00	Rear Position / Stop Lamp	S1221/5V	P21W/5W	RR*2424*A	15344		
		1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341		
2424LED-H	2424LED-H	1/00	Reversing Lamp	R1221	P21W	RL*2424*A	15341	911-352-93	HNZ01
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	
49/00	Rear Position Lamp			RP*2332-H24*A	34502				
2426-H	959-040-801	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2426-V	959-040-901	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2427-H	959-040-811	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2427-V	959-040-911	6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	9040
		49/00	Stop Lamp	LED	N/A LED	SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		

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2428-H	959-041-811	1/00	Reversing Lamp	LED	N/A LED	RL*1446-H*A	35980	959-149-95	9040
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-H24*A	34498	959-149-88	
		49/00	Stop Lamp			SL*2332-H24*A	34509	959-149-87	
		49/00	Rear Position Lamp			RP*2332-H24*A	34502		
2428-V	959-041-911	1/00	Reversing Lamp	LED	N/A LED	RL*1446-V*A	36243	959-149-95	9040
		6/00:Cat2a	Rear Direction Indicator Lamp			DI*2146-V24*A	36718	959-149-88	
		49/00	Stop Lamp			SL*2332-V24*A	36722	959-149-87	
		49/00	Rear Position Lamp			RP*2332-V24*A	36721		
2429	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp	LED	NA/LED	DI*2161*A	45443	958-780-73/74 958-780-75	0760
2429-CS	980761-80	49/00	Stop Lamp	LED	NA/LED	ST*2361*A	45634		
		49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2430	980760-80	6/00:Cat2a	Rear Direction Indicator Lamp	LED	NA/LED	DI*2161*A	45443	958-780-73/74 958-780-75	0760
2430-CS	980761-80	49/00	Stop Lamp	LED	NA/LED	ST*2361*A	45634		
		49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2431	980760-82	6/00:Cat2a	Rear Direction Indicator Lamp	LED	NA/LED	DI*2161*A	45443	958-780-73/74 958-780-75	0760
2431-CS	980761-82	49/00	Stop Lamp	LED	NA/LED	ST*2361*A	45634		
		49/00	Rear Position Lamp			RP*2361*A	45632		
		47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2161*A	45633		
2431-CS	980761-82	1/00	Reversing Lamp	LED	NA/LED	RL*1461*A	45442	958-780-72	0760
2550	001386-28	48/00	Licence Plate Lamp	L125	C5W	LP*2550*A	15157	911-352-45	12820
2553	951068-02	48/00	Licence Plate Lamp	G1210	R10W	LP*2553*A	15150	911-352-47	E1 22819
2555	001389-10	48/00	Licence Plate Lamp	L125	C5W	LP*2555*A	15156	911-352-49	12815R4
2557	900967-03	48/00	Licence Plate Lamp	HL124	T4W (2 Pieces)	LP*2557*A	15207	911-352-50	4151
2558	004525-00	48/00	Licence Plate Lamp	L125	C5W(2 Pieces)	LP*2558*A	15326	911-352-85	22861
2559	959640-00	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559S*A	42545	959-149-35	9590
2559-1	959640-30	48/00	Licence Plate Lamp	LED	N/A LED	LP*2559H*A	41602	980-703-00	9640
2560	980869-00	48/00	Licence Plate Lamp	LED	N/A LED	2560*LP*C	46799	958-315-24	0855
2902	002016-11	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2902*A	15180	911-352-51	0231290
2915	002014-23	47/00	Retro Reflector (Red/Rear)	N/A	N/A	NA/ECE	E243R020030	911-352/3-55/50	020030
2916	002014-25	47/00	Retro Reflector (Amber/Side)	N/A	N/A	NA/ECE	E243R020030	911-352/3-56/48	020030
2917	002014-24	47/00	Retro Reflector (White/Front)	N/A	N/A	NA/ECE	E243R020030	911-352/3-57/49	020030
2919	004412-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2919*A	15233	911-352/3-58/48	02338
2920	004412-02	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2920*A	15294	911-352/3-70/50	02338
2921	004412-01	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2921*A	15293	911-352/3-71/49	02338
2922	003326-04	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2922*A	15237	911-352/3-59/48	0292031
2922-2/200	003326-01	47/00	Retro Reflector (Amber/Side)	N/A	N/A	NA/ECE	E1 02 21395 R 3	911-352/3-59/48	0292031
2923	003326-03	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2923*A	15296	911-352/3-72/50	0292031
2923-2BULK	003326-00	47/00	Retro Reflector (Red/Rear)	N/A	N/A	NA/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2924	003326-05	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2924*A	15295	911-352/3-73/49	0292031
2924-2BULK	003326-02	47/00	Retro Reflector (White/Front)	N/A	N/A	NA/ECE	E1 02 21395 R 3	HKG & ADR13/00	E1 0221395
2925	004713-00	47/00	Retro Reflector (Amber/Side)	N/A	N/A	RE*2925*A	15234	911-352/3-60/48	02353
2926	342007-10	47/00	Retro Reflector (Red/Rear)	N/A	N/A	RE*2926*A	15298	911-352/3-74/50	02353
2927	342007-20	47/00	Retro Reflector (White/Front)	N/A	N/A	RE*2927*A	15297	911-352/3-75/49	02353
2934-H	980565-10	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-H*A	38243	959-150-34	5651
2934-V	980565-50	47/00	Retro Reflector (Red /Rear)	N/A	N/A	RE*2934-V*A	38244	959-150-34	5655
5237	959190-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5237*B	15350	911-352-64A	523
5238	959191-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5238*B	15349	911-352-65A	523
5239	959192-12	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	BL*5239*B	15351	911-352-66A	523
5243	959071-53	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	8-5243-08	23071	959-089-01	27547

Hella Part No.	Engineering Drawing No.	A.D.R. No.	Function	Globe(s)	Globe Type	Hella Ref. or ECE	F.O.R.S Ref: CRN or ECE	Instruction Sheet No.	Lamp Identification
5245	980887-30	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*12*ST*C	45934	958-780-83	0880A
5245-24V	980887-40	49/00 Cat S3	Centre High Level Brake Lamp	LED	N/A LED	5245*24*ST*C	45935		
5604	002395-84	46/00	Headlamp	XD1260/55	H4	HL*5604*A	15098	911-351-17	53
		49/00	Front Position Lamp	HL124	T4W	FP*5604*A	15099		
5605	114155-00	46/00	Headlamp	C1255	H1	HL*5605*A	15100	911-351-14	14464R8
5606	114178-00	46/00	Headlamp	C1255	H1	HL*5606*A	15101	911-351-15	7076R8
		49/00	Front Position Lamp	HL124	T4W	FP*5606*A	15102		
5607	009599-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5607*B	39474	911-355-15	2372
5608	009496-81	76/00	Daytime Running Lamp	LED	N/A LED	DRL*5608*B	39475	911-355-16	2344
5610	010043-08	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E1 2578 00RL 02A	HKG 460 895-18 & ADR 13/00	E1 2578 00RL 02A
5611	002850-06	46/00	Headlamp	XD1260/55	H4	HL*5611*A	15086	911-351-16	17031R20
		49/00	Front Position Lamp	HL124	T4W	FP*5611*A	15087		
5613	008283-01	46/00	High Beam Headlamp	CA1255	H7	HL*1322*A	26822	911-353-44	041210
5614	008283-00	50/00	Front Fog Lamp	CA1255	H7	FF*1122*A	26829	911-353-45	021209
5615	008284-01	46/00	High Beam Headlamp	CA1255	H7	HL*1323*A	26823	911-353-46	041212
5616	008284-00	50/00	Front Fog Lamp	CA1255	H7	FF*1123*A	26830	911-353-47	021211
5617	980670-00	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000002	980-703-10	E24 0002 (0670)
5618	980680-80	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-000001	980-703-12	E24 0001 (0680)
5618-24V	980680-85							980-703-24	
5619	980880-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1009*A	44200	958-780-26	0880
5619-24V	980880-85					DRL*1009-24V*A	44202		
5619V	980880-90	76/00	Daytime Running Lamp	LED	N/A LED	1009V*DRL*C	45962	958-780-98	0880 B
5619V-24V	980880-95					1009V-24V*DRL*C	45965		
5630	980860-84	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005863	958-780-18	E24 5863
5630-24V	980860-87								
5631	980850-84	76/00	Daytime Running Lamp	LED	N/A LED	N/A ECE	E24 87R-005862	958-780-19	E24 5862
5631-24V	980850-87								
5632	956330-00	50/00	Front Fog Lamp	YC1255	H3	FF*5632*A	15128	911-351-29	8361
5636	980970-80	76/00	Daytime Running Lamp	LED	N/A LED	DRL*1013*A	44776	958-780-52	0970
5636-24V	980970-85					DRL*1013-24V*A	44783		
5641	005750-04	50/00	Front Fog Lamp	YC1255	H3	FF*5641*A	15138	911-351-30	18213R19
5643	005700-02	50/00	Front Fog Lamp	YC1255	H3	FF*5643*A	15135	911-351-31	18216R19
5645	005860-00	50/00	Front Fog Lamp	YC1255	H3	FF*5645*A	15219	911-351-32	18227
5647	008090-00	50/00	Front Fog Lamp	YC1255	H3	FF*1115*A	28414	911-353-38	02 B E1 877
9.1358.01	002659-07	46/00	High Beam Headlamp	YC1255	H3	HL*1358*A	15112	911-351-50	14529

BY END ITEM NUMBER

Part No.	Spare Part	Description
1106	9.1306.09	Body assembly
	9.1345.08	Mounting bracket assembly
1109CHROME	8116	Protective Cover
	8133	Clear Cover
	9.1109.01	Amber Insert
1111	8124	Protective Cover
	8139	Clear Protective Cover
1113W	9.1113.01	Insert
1118	9.1118.01	Fog Lamp Insert
1124	8156	Clear Protective Cover
1125	8157	Clear Protective Cover
1126	8158	Clear Protective Cover
1145	9.1345.08	Mounting bracket assembly
	9.1345.09	Body assembly
1158	9.1362.08	Mounting bracket assembly
1162	8134	Clear Cover
	9.1362.08	Mounting bracket assembly
	9.1362.09	Body Assembly
	9.1363.08	Globe Holder
1302	9.1367.06	12V XGD Wiring Harness
1304	9.1308.08	Mounting bracket assembly
	9.1361.08	Globe Holder
1306	9.1306.01	Driving lamp insert
	9.1345.08	Mounting bracket assembly
1311BLUE	8124	Protective Cover
	8139	Clear Protective Cover
1312W	8030	Comet Cavity Mount System
1317CHROME	8150	Clear Cover
1319-24V	9.1319.03	Ballast 12V DC
	9.1319.04	Ballast 24V DC
1321	9.1319.03	Ballast 12V DC
1322	9.1319.04	Ballast 24V DC
1345CHROME	9.1345.01	Insert
1358 (old version)	9.1358.01	Driving lamp insert
1359 (old version)	9.1362.08	Mounting bracket assembly
1364	9.1363.08	Globe Holder
	8140	Clear Protective Cover
1367	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1367.06	12V XGD Wiring Harness
	9.1367.02	Pencil Beam Insert
	9.1365.06	M8 Screw Set
	9.1365.08	Bracket Assembly & Loom
1367HB	9.1367HB.01	HB Pencil Beam Insert
	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1365.06	Bracket Adjustable Screw Set M8
	9.1365.08	Bracket Assembly & Loom
1368	8125	Protective Cover
1368-24V	8125	Protective Cover
	8126	Protective Grille
	9.1368.02	Spread Beam Insert
	9.1365.06	M8 Screw Set
	9.1365.08	Bracket Assembly & Loom
1368HB	9.1368HB.01	HB Spread Beam Insert
	9.1319.03	Ballast 12V DC
	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1365.06	Bracket Adjustable Screw Set M8
	9.1365.08	Bracket Assembly & Loom

Part No.	Spare Part	Description
1368HB-24V	9.1368HB.01	HB Spread Beam Insert
	9.1319.04	Ballast 24V DC
	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1365.06	Bracket Adjustable Screw Set M8
	9.1365.08	Bracket Assembly & Loom
1369	8126	Protective Grille
1370	8146	Clear Protective Cover
1371	8146	Clear Protective Cover
	9.1368.02	Spread Beam Insert
1372	9.1365.06	M8 Screw Set
	8146	Clear Cover
1373	8146	Clear Cover
	9.1365.08	Bracket Assembly & Loom
	9.1367.06	12V XGD Wiring Harness
1376BLUE	9.1365.06	Bracket Adjustable Screw Set M8
	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
1376BLUEHB	9.1365.06	Bracket Adjustable Screw Set M8
	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
1377	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1377.01	Celis Spread Beam Insert
	9.1365.06	M8 Screw Set
	9.1365.07	Lens Retaining Rim
	9.1365.08	Bracket Assembly & Loom
1377CHROME	8125	Protective Cover
	8126	Protective Grille
	8141	Clear Protective Cover
	9.1377.01	Celis Spread Beam Insert
	9.1365.06	M8 Screw Set
1378BLUE	9.1365.06	Bracket Adjustable Screw Set M8
	8155	Clear Protective Cover
1379	8155	Protective Cover
	9.1378.08	Bracket Assembly
1379CHROME	8155	Protective Cover
1381	9.1381.01	Pencil beam Insert
	8155	Clear Protective Cover
	9.1319.03	Ballast 12V DC
	9.1365.06	Bracket Adjustable Screw Set M8
	9.1378.08	Bracket Assembly & Loom
1407	1.5147.01	Lens
1511 (old version)	4403	Push/pull switch
1512 (old version)	4403	Push/pull switch
1513 (old version)	4403	Push/pull switch
1516-24V	9.1307.09	Body Assembly
	9.1308.08	Mounting Bracket Assembly
	9.1516.01	Insert
1605	9.1728.01	Amber Polycarbonate Lens
1605-24V	9.1728.01	Amber Polycarbonate Lens
1606	9.1728.01	Amber Polycarbonate Lens
1607	9.1728.01	Amber Polycarbonate Lens
1607-24V	9.1728.01	Amber Polycarbonate Lens
1688	1.6502.012	Red Lens
1689	1.6502.012	Red Lens
1691	1.6502.01	Amber Lens
1696	1.6502.01	Amber Lens

Part No.	Spare Part	Description
1708	9.1708.01	Blue Lens
	9.1717.52	12V Motor with Reflector (clip mount)
	9.1717.23	Reflector Base Assembly (screw mount)
	9.1717.54	12V Motor (plastic type)
	9.1720.54	24V Motor (plastic type)
	9.1737.91	Drive Belts (set of two)
1709	9.1701.01	Red Lens (plain)
	9.1717.52	12V Motor with Reflector (clip mount)
	9.1717.23	Reflector Base Assembly (screw mount)
	9.1717.54	12V Motor (plastic type)
	9.1720.54	24V Motor (plastic type)
	9.1737.91	Drive Belts (set of two)
1711	9.1708.01	Blue Lens
	9.1717.52	12V Motor with Reflector (clip mount)
	9.1717.23	Reflector Base Assembly (screw mount)
	9.1717.54	12V Motor (plastic type)
	9.1720.54	24V Motor (plastic type)
	9.1737.91	Drive Belts (set of two)
1712	9.1701.01	Red Lens (plain)
	9.1717.52	12V Motor with Reflector (clip mount)
	9.1717.23	Reflector Base Assembly (screw mount)
	9.1717.54	12V Motor (plastic type)
	9.1720.54	24V Motor (plastic type)
	9.1737.91	Drive Belts (set of two)
1780	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1781	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1782	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1783	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1784	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1785	9.1717.54	12V Motor
	9.1720.54	24V Motor
	9.1737.91	Drive Belt Set
1800A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1801A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1802A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1803A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1804A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1805A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1806A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1807A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1808A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1809A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt
1810A	9.1800.53	Rotator Module Assembly
	9.1800.91	Drive Belt

Part No.	Spare Part	Description
2018	2.0957.04	Rubber Backplate
2024	9.2037.50	Metal Guard
2032	2.9800.06	Red Lens
	2.9800.07	Amber Lens
2038	2.9800.02	Amber Lens
	9.2037.50	Metal Guard
2041	9.2041.01	Lens
	9.2043.05	Lens Gasket
	9.2041.08	Single Contact Globe Holder
	9.2041.09BULK	Single Housing (pack of 10)
2053SBULK	9.2053.10BULK	Red Housing (pack of 4)
	9.2053.11BULK	White Housing (pack of 4)
	9.2053.12BULK	Blue Housing (pack of 4)
	9.2053.13BULK	Green Housing (pack of 4)
	9.2053.14BULK	Yellow Housing (pack of 4)
2063	2.9800.08	Clear Lens
2065	9.2065.01	Lens
2080	2.9801.03	Lens
	2.6826.03	Retaining Rlm
2117	2.6846.01	Amber Lens
2119	2.6708.01	Lens
2120	2.6708.01	Lens
2121	2.6826.05	Lens
	2.6826.03	Retaining Rlm
2124	2.0957.04	Rubber Backplate
	2.1872.01	Contoured Gasket
2128LED-24V	2.6702.03	Backing Plate
	9.2397.40	Gasket
2130 (old version)	2.6702.03	Plastic back plate
2135	2.9800.09	Amber Lens
2135LED-24V	9.2397.40	Gasket
2136	2.9800.09	Amber Lens
2136LED-24V	9.2397.40	Gasket
2144	9.2144.01	Lens
	9.2043.05	Lens Gasket
	9.2041.08	Single Contact Globe Holder
	9.2041.09BULK	Single Housing (pack of 10)
2300	9.2300.01	Lens
2301	9.2300.01	Lens
2302	9.2302.01	Lens
2304	9.2397.40	Lens Gasket
2314	2.9801.01	Red Lens
2315	2.9801.01	Red Lens
2316	2.9803.09	Red Lens with inbuilt retro reflector
2320	9.2320.01	Lens
	9.2320.08	Double Contact Globe Holder
	9.2043.05	Lens Gasket
	9.2041.09BULK	Single Housing (pack of 10)
2370	2.6826.03	Retaining Rlm
2382	9.2397.40	Lens Gasket
2386	2.9801.01	Red Lens
2388	9.2397.40	Lens Gasket
2409	9.2409.01	Red Lens
2412	9.2412.01	Lens and Gasket
2413	9.2412.01	Lens and Gasket
2552	M123	Festoon Globe 12V 3W
	M243	Festoon Globe 24V 3W
2610	2.9800.08	Clear Lens
2611	2.9800.08	Clear Lens
2614	2.9801.05	Lens
2867	FL8	Fluorescent Tube
2868	FL8	Fluorescent Tube
5601	9.1367.06	12V XGD Wiring Harness
5629	9.1308.08	Mounting bracket assembly
5636W	9.1113.01	Insert
5649	8156	Clear Protective Cover
5651	8157	Clear Protective Cover
5653	8158	Clear Protective Cover
959060507	9.2330.08	Screw Cap & Boss Kit
959060517	9.2330.08	Screw Cap & Boss Kit

BY SPARE PART NUMBER

Spare Part	Part No.	Description
1.5147.01	1407	Lens
1.6502.01	1691	Amber Lens
	1696	Amber Lens
1.6502.012	1688	Red Lens
	1689	Red Lens
2.0957.04	2018	Rubber Backplate
	2124	Rubber Backplate
2.1872.01	2018	Contoured Gasket
	2124	Contoured Gasket
2.6702.03	2128LED-24V	Backing Plate
	2130 (old version)	Plastic back plate
2.6708.01	2119	Lens
	2120	Lens
2.6826.03	2080	Retaining Rlm
	2121	Retaining Rlm
	2370	Retaining Rlm
2.6826.05	2121	Lens
2.6846.01	2117	Amber Lens
2.9800.02	2038	Amber Lens
2.9800.06	2032	Red Lens
2.9800.07	2032	Amber Lens
2.9800.08	2063	Clear Lens
	2610	Clear Lens
	2611	Clear Lens
2.9800.09	2135	Amber Lens
	2136	Amber Lens
2.9801.01	2314	Red Lens
	2315	Red Lens
	2386	Red Lens
2.9801.03	2080	Lens
2.9801.05	2614	Lens
2.9803.09	2316	Red Lens with inbuilt retro reflector
4403	1511 (old version)	Push/pull switch
	1512 (old version)	Push/pull switch
	1513 (old version)	Push/pull switch
8116	1109CHROME	Protective Cover
8124	1111	Protective Cover
	1311BLUE	Protective Cover
8125	1367	Protective Cover
	1367HB	Protective Cover
	1368	Protective Cover
	1368-24V	Protective Cover
	1368HB	Protective Cover
	1368HB-24V	Protective Cover
	1376BLUE	Protective Cover
	1376BLUEHB	Protective Cover
	1377	Protective Cover
	1377CHROME	Protective Cover
8126	1367	Protective Grille
	1367HB	Protective Grille
	1368-24V	Protective Grille
	1368HB	Protective Grille
	1368HB-24V	Protective Grille
	1369	Protective Grille
	1376BLUE	Protective Grille
	1376BLUEHB	Protective Grille
	1377	Protective Grille
	1377CHROME	Protective Grille
8133	1109CHROME	Clear Cover
8134	1162	Clear Cover
8139	1111	Clear Protective Cover
	1311BLUE	Clear Protective Cover
8140	1364	Clear Protective Cover

Spare Part	Part No.	Description
8141	1367	Clear Protective Cover
	1367HB	Clear Protective Cover
	1368HB	Clear Protective Cover
	1368HB-24V	Clear Protective Cover
	1376BLUE	Clear Protective Cover
	1376BLUEHB	Clear Protective Cover
	1377	Clear Protective Cover
	1377CHROME	Clear Protective Cover
8146	1370	Clear Protective Cover
	1371	Clear Protective Cover
	1372	Clear Cover
	1373	Clear Cover
8150	1317CHROME	Clear Cover
8155	1378BLUE	Clear Protective Cover
	1379	Protective Cover
	1379CHROME	Protective Cover
	1381	Clear Protective Cover
8156	1124	Clear Protective Cover
	5649	Clear Protective Cover
8157	1125	Clear Protective Cover
	5651	Clear Protective Cover
8158	1126	Clear Protective Cover
	5653	Clear Protective Cover
9.1109.01	1109CHROME	Amber Insert
9.1113.01	1113W	Insert
	5636W	Insert
9.1118.01	1118	Fog Lamp Insert
9.1306.01	1306	Driving lamp insert
9.1306.09	1106	Body assembly
9.1307.09	1516-24V	Body Assembly
9.1308.08	1304	Mounting bracket assembly
	1516-24V	Mounting Bracket Assembly
	5629	Mounting bracket assembly
9.1319.03	1319-24V	Ballast 12V DC
	1321	Ballast 12V DC
	1368HB	Ballast 12V DC
	1381	Ballast 12V DC
9.1319.04	1319-24V	Ballast 24V DC
	1322	Ballast 24V DC
	1368HB-24V	Ballast 24V DC
9.1345.01	1345CHROME	Insert
9.1345.08	1106	Mounting bracket assembly
	1145	Mounting bracket assembly
	1306	Mounting bracket assembly
9.1345.09	1145	Body assembly
9.1358.01	1358 (old version)	Driving lamp insert
9.1362.08	1158	Mounting bracket assembly
	1162	Mounting bracket assembly
	1359 (old version)	Mounting bracket assembly
9.1362.09	1162	Body Assembly
9.1363.08	1162	Globe Holder
	1364	Globe Holder
9.1365.06	1367	M8 Screw Set
	1367HB	Bracket Adjustable Screw Set M8
	1368-24V	M8 Screw Set
	1368HB	Bracket Adjustable Screw Set M8
	1368HB-24V	Bracket Adjustable Screw Set M8
	1372	M8 Screw Set
	1376BLUE	Bracket Adjustable Screw Set M8
	1376BLUEHB	Bracket Adjustable Screw Set M8
	1377	M8 Screw Set
	1377CHROME	M8 Screw Set
	1378BLUE	Bracket Adjustable Screw Set M8
	1381	Bracket Adjustable Screw Set M8

Spare Part	Part No.	Description
9.1365.07	1377	Lens Retaining Rim
9.1365.08	1367	Bracket Assembly & Loom
	1367HB	Bracket Assembly & Loom
	1368-24V	Bracket Assembly & Loom
	1368HB	Bracket Assembly & Loom
	1368HB-24V	Bracket Assembly & Loom
	1373	Bracket Assembly & Loom
	1377	Bracket Assembly & Loom
9.1367.02	1367	Pencil Beam Insert
9.1367.06	1302	12V XGD Wiring Harness
	1367	12V XGD Wiring Harness
	5601	12V XGD Wiring Harness
9.1367.07	1367	Lens Retaining Rim
9.1367HB.01	1367HB	HB Pencil Beam Insert
9.1368.02	1368-24V	Spread Beam Insert
	1371	Spread Beam Insert
9.1368HB.01	1368HB	HB Spread Beam Insert
	1368HB-24V	HB Spread Beam Insert
9.1377.01	1377	Celis Spread Beam Insert
	1377CHROME	Celis Spread Beam Insert
9.1381.01	1381	Pencil beam Insert
9.1516.01	1516-24V	Insert
9.1701.01	1709	Red Lens (plain)
	1712	Red Lens (plain)
9.1717.23	1708	Reflector Base Assembly (screw mount)
	1709	Reflector Base Assembly (screw mount)
	1711	Reflector Base Assembly (screw mount)
	1712	Reflector Base Assembly (screw mount)
9.1717.52	1708	12V Motor with Reflector (clip mount)
	1709	12V Motor with Reflector (clip mount)
	1711	12V Motor with Reflector (clip mount)
	1712	12V Motor with Reflector (clip mount)
9.1717.54	1708	12V Motor (plastic type)
	1709	12V Motor (plastic type)
	1711	12V Motor (plastic type)
	1712	12V Motor (plastic type)
	1780	12V Motor
	1781	12V Motor
	1782	12V Motor
	1783	12V Motor
	1784	12V Motor
	1785	12V Motor
9.1720.54	1708	24V Motor (plastic type)
	1709	24V Motor (plastic type)
	1711	24V Motor (plastic type)
	1712	24V Motor (plastic type)
	1780	24V Motor
	1781	24V Motor
	1782	24V Motor
	1783	24V Motor
	1784	24V Motor
	1785	24V Motor
9.1728.01	1605	Amber Polycarbonate Lens
	1605-24V	Amber Polycarbonate Lens
	1606	Amber Polycarbonate Lens
	1607	Amber Polycarbonate Lens
	1607-24V	Amber Polycarbonate Lens

Spare Part	Part No.	Description
9.1737.91	1708	Drive Belts (set of two)
	1709	Drive Belts (set of two)
	1711	Drive Belts (set of two)
	1712	Drive Belts (set of two)
	1780	Drive Belt Set
	1781	Drive Belt Set
	1782	Drive Belt Set
	1783	Drive Belt Set
	1784	Drive Belt Set
	1785	Drive Belt Set
9.1800.53	1800A	Rotator Module Assembly
	1801A	Rotator Module Assembly
	1802A	Rotator Module Assembly
	1803A	Rotator Module Assembly
	1804A	Rotator Module Assembly
	1805A	Rotator Module Assembly
	1806A	Rotator Module Assembly
	1807A	Rotator Module Assembly
	1808A	Rotator Module Assembly
	1809A	Rotator Module Assembly
	1810A	Rotator Module Assembly
9.1800.91	1800A	Drive Belt
	1801A	Drive Belt
	1802A	Drive Belt
	1803A	Drive Belt
	1804A	Drive Belt
	1805A	Drive Belt
	1806A	Drive Belt
	1807A	Drive Belt
	1808A	Drive Belt
	1809A	Drive Belt
	1810A	Drive Belt
9.2037.50	2024	Metal Guard
	2038	Metal Guard
9.2041.01	2041	Lens
9.2041.08	2041	Single Contact Globe Holder
	2144	Single Contact Globe Holder
9.2041.09BULK	2041	Single Housing (pack of 10)
	2144	Single Housing (pack of 10)
	2320	Single Housing (pack of 10)
9.2043.05	2041	Lens Gasket
	2144	Lens Gasket
	2320	Lens Gasket
9.2053.10BULK	2053SBULK	Red Housing (pack of 4)
9.2053.11BULK	2053SBULK	White Housing (pack of 4)
9.2053.12BULK	2053SBULK	Blue Housing (pack of 4)
9.2053.13BULK	2053SBULK	Green Housing (pack of 4)
9.2053.14BULK	2053SBULK	Yellow Housing (pack of 4)
9.2065.01	2065	Lens
9.2144.01	2144	Lens
9.2300.01	2300	Lens
	2301	Lens
9.2302.01	2302	Lens
9.2320.01	2320	Lens
9.2320.08	2320	Double Contact Globe Holder
9.2330.08	959060507	Screw Cap & Boss Kit
	959060517	Screw Cap & Boss Kit
9.2397.40	2128LED-24V	Gasket
	2135LED-24V	Gasket
	2136LED-24V	Gasket
	2304	Lens Gasket
	2382	Lens Gasket
	2388	Lens Gasket
9.2409.01	2409	Red Lens
9.2412.01	2412	Lens and Gasket
	2413	Lens and Gasket
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	2868	Fluorescent Tube
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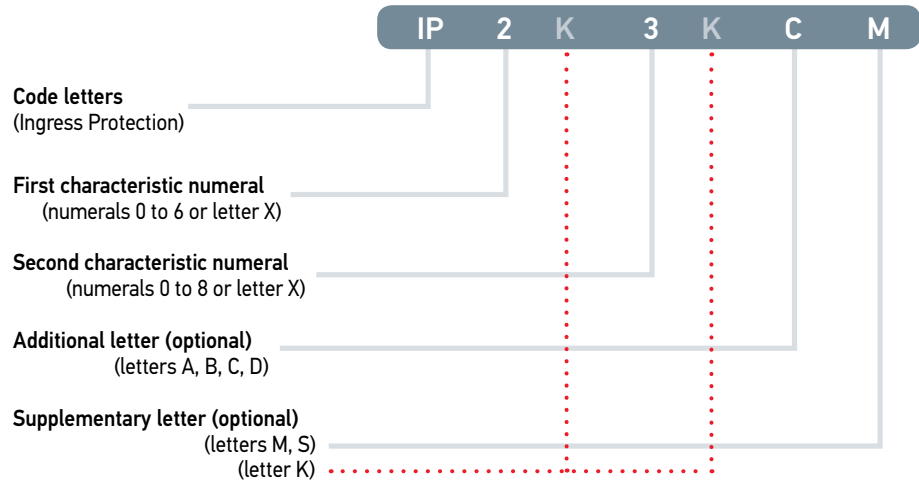
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Ingress Protection (IP) Rating

Construction and meaning of the IP Rating



Ingress Protection: Overview of the Elements of the IP Rating

Element	Numeral / Letter	Protection of electrical equipment	Protection of persons	
First characteristic numeral / supplementary letter	0	not protected	not protected	
	1	with size $\geq 50\text{mm}$	with back of hand	
	2	with size $\geq 12.5\text{mm}$	with finger	
	3	with size $\geq 2.5\text{mm}$	with tool	
	4	with size $\geq 1\text{mm}$	with wire	
	5K 6K	dust-protected dust-tight	with wire with wire	
Second characteristic numeral / supplementary letter	0	Not protected		
	1	Vertical dripping		
	2	Dripping (inclined 15°)		
	3	Spraying		
	4	Splashing		
	4K	Same with increased pressure		
	5	Jetting		
	6	Powerful jetting		
	6K	Same at increased pressure		
	7	Temporary immersion		
8	Continuous immersion			
9K	High-pressure/steam jet cleaning			
Additional letter (optional)	A B C D	Meaning for the protection of electrical equipment	Protection against access to hazardous parts (unless described by first characteristic numeral): with back of hand with finger with tool with wire	
	M			Movement of moving parts during water test
	S			Standstill of moving parts during water test
	K			Specifically for the electrical equipment in road vehicles

Warranty Information

STATEMENT OF WARRANTY

Hella Australia Pty Ltd warrants all products from the date of purchase to an end-user for the first time and covers defects in materials and/or workmanship only and provided that the product is installed in accordance with our mounting instructions and by suitable qualified personnel.

The benefits given by our Warranty are in addition to other rights and remedies of consumers under a law in relation to the products to which our Warranty relates; and

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

WARRANTY PERIODS

Please refer to our website www.hella.com.au for up to date information on specific warranty periods and conditions that may apply.

LIMITATION OF LIABILITY

Hella Australia Pty Ltd liability is limited to repair, replace or settle by credit note at Hella Australia Pty Ltd discretion.

The goods are supplied strictly on the terms and subject to the condition that the Buyer has satisfied itself of their suitability for its intended purpose.

Information supplied and printed in catalogues, specifications or other details on the product shall not constitute guarantees for condition or durability.

This warranty does not cover:

- Any labor costs incurred in diagnosis, troubleshooting, removal or reinstallation of the product and failures related to installation nor does it cover any consequential damage, indirect or special loss (whether for loss of profit or otherwise) and damage or injury of any kind.

- Any expenses associated with the handling of claims.
- Claims that are attributable to the non-compliance of the vehicle manufacturer's production specifications, maintenance and or service policies.
- Claims as a result of any modifications and alterations to the product.
- Claims as a result of non-compliance to the assembly, service and operating instructions and/or any unfit or improper use, and /or wrong or negligent treatment, and /or normal wear and tear, contamination, results from accidents, insufficient or excessive electrical supply, subject to undue environmental conditions, accident or improper application.
- Railway applications.

CLAIMS SUBMISSION

When a Hella product is suspected to be defective, the end-user shall return the product to where it was originally purchased. The Hella distributor should contact hellacredits@hella.com to get the return material advice (RMA) and to organise return. The product along with the relevant documents shall then be returned to Hella Australia Pty Ltd head office for assessment.

HELLA Australia Pty. Ltd.

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GENERAL DISCLAIMER

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