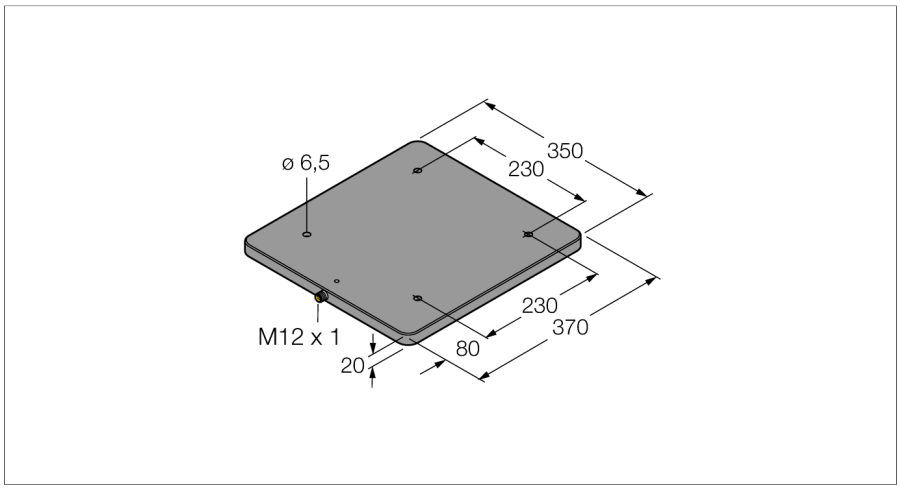
BL ident®

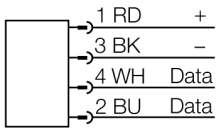
read/write head
TNSLR-Q350-H1147

TURCK
Industrial Automation

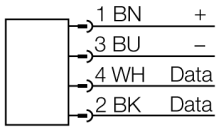


- **Rectangular, 370x350 mm, height 20 mm**
- **Active face on top**
- **Plastic, PBT-GF30-VO**
- **Powered and operated only via BL ident interface module**
- **Male M12 x 1, only for use with BL ident extension cable**

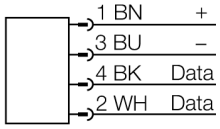
Connectors …/S2503



Connectors …/S2500



Connectors …/S2501



Type code	TNSLR-Q350-H1147
Ident no.	7030454
Mounting conditions	non-flush
Ambient temperature	-25…+70 °C
Operating voltage	19.2…28.8VDC
DC rated operational current	≤ 150 mA
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/write distance max.	794 mm
Output function	4-wire, read/write
Construction	rectangular, Q350
Dimensions	370x 350x 20mm
Housing material	plastic, PBT, black
Material active area	plastic, Black
Connection	male, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
IP Rating	IP67
MTTF	121 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED green
Diagnostic display	Functional description of yellow range-restricted LED: If the read/write head is supplied with voltage, it briefly checks to see whether its resonance frequency is affected by surrounding metal. If this is the case, the resonant circuit off-tunes its frequency to reach again the (optimum) resonance frequency. However, this is only possible within a certain range. If too much metal is in the environment, the read/write head cannot re-tune or the surrounding metal takes too much energy from the field and due to the reduced range the communication between the read/write head and the data carrier is cut off (the orange range-restricted-LED lights up). If the LED is off, this does not mean conversely, that no reduction in range occurs. The lit LED is rather an indication of too much metal in the environment and a greatly reduced range (about 50% less).

Functional principle

The HF read/write heads operating at a frequency of 13.56 MHz form a transmission zone the size of which (0…500 mm) varies, depending on the combination of read/write head and data carrier.

The read/write distances mentioned here only represent standard values measured under laboratory conditions.

The read/write distances of the data carriers for mounting in metal TW-R**-M(MF) were determined in metal.

Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal)

Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!

Edition • 2015-08-27T10:30:40+02:00

Packaged quantity	1
Special features	Very long ranges

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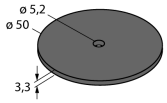
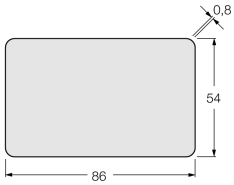
Data carrier

Dimensions	Type designation Ident - no.	Read-write distance Recommend-ed (mm)	 max. [mm]	Transfer zone length max. [mm]	 width offset max. [mm]	Minimum dis-tance between two read-write heads [mm]
	**TW-R50-B128** 6900504	280	560	600	300	1110
	TW-R50-K2 6900507	210	400	480	240	1110
	**TW-L86-54-C-B128** 6900479	432	794	792	396	1110

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BL ident

TURCK Industrial Automation

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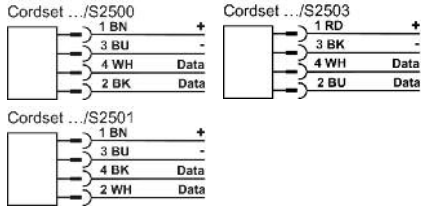
1

Type
TNSLR-Q350-H1147

Ident-No. **7030454**



24 VDC

IP67

1615H

Warning:Hazardous voltage can cause electrical shock and burns.
Disconnect power before proceeding with any work on this equipment.
Made in Germany
Hans Turck GmbH & Co. KG · Witzlebenstraße 7 · 45472 Mülheim/Ruhr · Germany
Phone +49 208 49 52-0 · Fax +49 208 49 52-264 · more@turck.com · www.turck.com

FCC/IC Digital Device Limitations

M/N:TNSLR-Q350-H1147
FCC ID: YQ7-TNSLRQ350
IC: 8821A-TNSLRQ350

This device complies with Industry Canada
licence-exempt RSS standard(s) and part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference,
including interference that may cause undesired
operation of the device.

Changes or modifications not expressly approved by the party
responsible for compliance could void the user's authority to
operate the equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada
applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'appareil doit accepter tout brouillage
radioélectrique subi, même si le brouillage est
susceptible d'en compromettre le fonctionnement.