

Hubbell Building Automation



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Energy Saving Lighting Controls

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Hubbell Building Automation	3
Hubbell Building Automation Benefits /	3
Building Codes and Standards	5
Business Services	22
Networked Lighting Controls	7
Networked Lighting Controls Quick Reference Guide	9
High Bay Controls	uilding
High Bay Controls Quick Reference Guide	13 Automatic
Daylighting Controls	LX Block Diagrom
Daylighting Controls Quick Reference Guide	
Occupancy Sensors	
Occupancy Sensors Quick Reference Guide	[3] 21 Long to a
Numerical Index	177 vale 35 mech
Part Connection	Little 2 each
The second secon	Lawrent -
Segment 3	LOTAWY - Ap 6 each
Se 1 L The s	e eech
and the second s	Bment 4
	the test
S KI	A Stand Lange
X	- SVAF
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Specifications Subject to entry and a subject



Hubbell Building Automation, Inc., headquartered in Austin, TX is a subsidiary of Hubbell Incorporated (A Delaware Corporation). Hubbell Building Automation draws on over 30 years of lighting control experience. As the leading developer of groundbreaking technologies in lighting control panels, HID and fluorescent controls as well as occupancy sensor controls, Hubbell Building Automation manufactures a complete suite of energy saving lighting control solutions. For further information about Hubbell Building Automation, please visit our web site at hubbellautomation.com or contact us directly at {888} 698-3242 or {512} 450-1100.

Building Automation Hubbe

A Name You Can Trust - Hubbell

Founded in 1888 by Harvey Hubbell II, Hubbell Inc. has been a long-time contributor to new product design and manufacturing innovation. In 1896, Hubbell invented the world's first lighting control device, the pull chain switch. Over 100+ years later, Hubbell Building Automation, headquartered in Austin, Texas, continues this tradition of innovation with the development of a vast array of energy saving lighting controls.

Integrated Networked Lighting Controls

As lighting control systems and devices have evolved, their capabilities and functionality have grown immensely. Hubbell Building Automation's innovative LX Series delivers networked lighting controls with rich functionality, an easy to use graphical user interface for local and remote system management and unmatched integration support for other building systems and network protocols.

Innovative Occupancy Sensors

Hubbell Building Automation sets the standard. Few people realize that traditional occupancy sensors need adjustment throughout the year when seasons change, airflow is modified and furniture layout or occupancy patterns change.

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If sensors are not constantly monitored and adjusted, your energy savings objectives will not be met. HBA realized this and was the first to introduce the industry's first self-adapting sensor. HBA's patented IntelliDAPT® technology is the key to maximizing energy savings-from open offices to the manufacturing floor. Digital microprocessor technology makes all sensor adjustment decisions. Smart software monitors the controlled area, and makes sensitivity and timer adjustments automatically. Occupancy sensors with IntelliDAPT provide maintenance free "Install and Forget" operation.



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Hubbell Building Automation offers a broad

range of occupancy and vacancy sensors and lighting controls that meet the latest codes and standards, including ASHRAE/ IESNA 90.1 and CEC's Title 24. Hubbell Building Automation Occupancy Sensors can also provide LEED[®]points in categories such as Sustainable Sites, Energy and Atmosphere, Indoor Environmental Quality and Innovative Design Process.

A significant energy conservation movement has been established across the globe in the form of local, state and national programs, standards and codes that call for energy efficiency in both commercial and residential buildings.

These codes and standards include:

- LEED[®] (Leadership in Energy and Environmental Design) certification in new and renovated facilities through the U.S. Green Building Council (USGBC) promotes sustainable building design.
- California Energy Commission's (CEC) Title 24 program enforces stringent standards and regulations to reduce energy consumption, including automatic lighting control and shut-off.
- ASHRAE/IESNA 90.1 energy efficiency code requires interior lighting in buildings larger than 5000 sq. ft. to be controlled with automatic devices.
- IECC[®] (International Energy Conservation Code) compliance requires automatic shut-off of lighting which is now adopted by most states in some form.

As energy concerns increase, the "greening" of commercial and residential buildings will continue through more stringent standards and additional energy conservation initiatives like the EPA's ENERGY STAR program and the 2030 Challenge that aims to reduce energy use by 50% before 2030.

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LONMARC33 LX Photo Sensor Control Module	Power
Node Address A Senser Ret - Final Bite 2005.9.15 206333 Benser Preser Final Bite Senser Preser Final Bite Photo Cell Senser Preser Final Bite Photo Cell	G Service LED
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City of Las Cruces City Hall, Las Cruces, New Mexico, USA. Photography by Shane Thomas, Las Cruces, New Mexico, USA.



Energy Conservation

Hubbell Building Automation Occupancy Sensors Play a Key Role

In the U.S., lighting consumes 22% of electricity and represents

\$40 billion a year in energy costs. Using advanced technology, Hubbell Building Automation's Occupancy Sensors are

doing their part to save energy and provide sustainability by

automatically and effectively turning lights on when a room

is occupied and off when a room is vacant. In a typical office

building, where lighting accounts for 35 to 45% of energy use,

HBA Occupancy Sensors have the potential to reduce wasted

lighting by 13 to 90% for a significant return on investment

(ROI).

Backed by HBA Service and Support

HBA Occupancy Sensors are backed by Hubbell Building Automation's sustainability initiative and superior service along with support including:

- Valuable online ROI worksheet for calculating energy savings
- Product selection guide for choosing the right HBA Occupancy Sensor and technology
- Online specification assistance through HBAControls. com, AutoCAD drawings, templates and documentation
- Comprehensive design assistance for deploying occupancy sensors in a variety of applications
- Highly knowledgeable network of specification professionals and trained, dedicated sales staff
- Backed by Hubbell who is committed to safeguarding the environment through environmental stewardship, innovative products and efficient operations

For more information about Hubbell Building Automation's sustainability initiative and access to our complete suite of on-line tools, visit our website at hubbell-automation.com





The LX Networked Lighting Control Systems can be installed and programmed to maximize energy savings for your application. Interior and exterior lighting can account for 40% of all energy costs on a property. With a complete networked control solution you can recover as much as 25% to 50% of that cost in the first six months. You can rest assured that the lighting will be on when required and off when not required, providing you energy savings and peace of mind.

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LX Networked Lighting Controls

A lighting control system has two purposes: to save mor and improve the ease of both owning and using lighting The technology of the LX system reaches those goals with unmatched harmony and simplicity. By using a flexible network of smart sensors and switches with an intuitive programming interface - either with the Touch Screen Ta or remotely on the LAN/Internet - you can finally take co of your lighting like never before.

Thanks to our LonWorks[®] "Open System" architecture, sensors and switches can be installed "plug-and-play" by simply connecting to any point on the topology-free, polarity-insensitive, 2-wire communication network. The possibilities for control, and ultimately savings, are endless.

LX Networked Lighting Controls Key Features

The LX networked lighting controls provide the following features:

- Unique handheld touchscreen GUI
- Robust and reliable 20 Amp mechanically latching relays
- Multiple size enclosures available (4, 8, 16, 32, and 48 relays)
- Powered, topology-free, polarity-insensitive, 2-wire communication
- LonWorks[®] "open system" architecture
- LonMark[®] certified
- Seamless integration with major building protocols, such as LON, BACNET® and MODBUS®
- Feature-rich scheduling functions
- 365-day time clock
- Automatic daylight savings time and leap year compensation
- Built-in astronomical time clock for sunrise and sunset programming
- UL and cUL listed
- 2-year warranty

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Networked Lighting Controls

ney	The LX networked lighting controls provide the ultimate in
J.	harmony of technology and simplicity. Capable, functional
th	lighting control systems do not have to be difficult to use or
	install. As lighting control systems and devices have evolved,
	their capabilities and functionality have grown immensely.
blet	
ntrol	Unfortunately, the interfaces used today for these same
	features and functions have not progressed at the same rate.
	The LX Series overcomes these limitations through the use of
	a GUI touch screen.



LX Lighting Control Panels 4, 8, 16, 32, 48 Relays

Page 27

LX4 up to 4 Relays **LX8** up to 8 Relays LX16 up to 16 Relays LX32 up to 32 Relays LX48 up to 48 Relays

LX Relays



LXRL1 LX Relay, Single Pole, 120/277/347VAC LXRL2 LX Relay, Double Pole, 208/240/480VAC

LXBC Breaker Control Panels 12, 18, 30, 42 Breaker/Relays



LXBC11LB12H LXBC11LB18H LXBC11LB30H LXBC11CB30H LXBC12LB42H LXBC12CB42H LXBC21LB18H LXBC21LB30H LXBC22LB30H LXBC22LB42H

LXBR Circuit Breaker Relays/Circuit Breakers



LXBR120C 20A, 1P Controlled Circuit Breaker/Relay LXBR320N

20A, 3P, Non-Controlled Circuit breaker

LX Touch Tablet Graphical User Interface

Page 35



LXTB LX Touch Screen Tablet

LXJENEsys Network Interface Components



LXJNSYS LX JENEsys Controller with Management Software, LON Network Module and Power Supply LXJNSYS2LON LX JENEsys Controller

with Management Software, LON Integration Support, LON Network Modules and Power Supply LXJNSYS2BACNETIP LX JENEsys Controller with Management Software, **BACNET IP Integration Support, LON** Network Module and Power Supply LXJNSYS2BACNETMSTP LX JENEsys Controller with Management Software, BACNET MS/

TP Integration Support, LON Network Module and Power Supply

LXJNSYS3BACNETMSTP

LX JENEsys Controller with Management Software, BACNET MS/TP Integration Support, LON Network Module and Power Supply LXJNSYS2MODBUS LX JENEsys Controller with Management Software, MODBUS Integration Support, LON Network Module and Power Supply LXJNCOM56KM1 LX JENEsys 56kbps Modem for LX JENEsys Controller

LX Networked Switch Stations Page 39

LXSW1LP 1 Button
LXSW2LP 2 Buttons
LXSW3LP 3 Buttons
LXSW4LP 4 Buttons
LXSW5LP 5 Buttons
LXSW6LP 6 Buttons
LXSW1FT 1 Button
LXSW2FT 2 Buttons
LXSW3FT 3 Buttons
LXSW4FT 4 Buttons
LXSW5FT 5 Buttons
LXSW6FT 6 Buttons

LX Keyed Switch Station

Page 41



LXKEY1LP LX Keyed Switch Station, Link Power Version

LX Occupancy Sensor Featuring IntelliDAPT

Page 43



LXOMDT2000FT LX Intelligent Ultrasonic and PIR Occupancy Sensor, FT-10 LXOMDT2000LP LX Intelligent Ultrasonic and PIR Occupancy Sensor, Link Power

LX Photo Sensor Control Module and Sensors





LXPSCMLP LX Photo Sensor Control Module – Link Power LXPSCMFT LX Photo Sensor Control Module - FT LXPSPCI LX Photo Sensor Photocell Indoor LXPSPCO LX Photo Sensor Photocell Outdoor LXPSPCS LX Photo Sensor Photocell Skylight/Atrium

LX Dry Contact Interface Modules





LXDCIMFT LX Dry Contact Interface Module

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LXS05T 5A 120/240/277VAC LXS05DW 5A 120/240/277VAC **LXS05DI** 5A 120/240/277VAC LXS05T3 5A 120/240/277VAC LXS05T3W 5A 120/240/277VAC LXS05T3I 5A 120/240/277VAC **LXS20T** 20A 120/240/277VAC LXS20DW 20A 120/240/277VAC LXS20DI 20A 120/240/277VAC LXS20T3 20A 120/240/277VAC LXS20T3W 20A120/240/277VAC LXS20T3I 20A 120/240/277VAC

LX Link Power Module



LXLPM2 LX Link Power Module, 120VAC

LX Router/Repeater



LXRRM LX Router/Repeater Module

LX Power Supply



LXPWRSPLY LX Power Supply

LX Terminator



LXTERMINATOR LX Free **Topology Bus Terminator**

LX Enclosure for DIN Rail Modules

Page 59

LXENDM LX Enclosure for DIN Rail Device Modules

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Networked Lighting Controls Quick Reference Guide







Effective energy management is a key concern for today's streamlined businesses. Precise management of high intensity discharge (HID) and high output fluorescents enables companies to save energy. Leading the industry in technology and proven quality, Hubbell Building Automation offers superior options for lighting control: the LightBAT[™] G2 Dual-Level HID Controller and the HBA Wasp Fluorescent High Bay Occupancy Sensor. HID lighting is a major source of energy waste and the most difficult lighting to control. Of the 40 million HID fixtures in the U.S., less than 3% are controlled.

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High Bay Controls

Energy Saving Technology

Effective energy management is key for today's streamlined businesses. Precise management of high intensity discharge (HID) and high output fluorescent fixtures enables companies to save energy. Hubbell Building Automation offers superior options for lighting control—the LightBAT[™] G2 Dual Level HID

controller and the Fluorescent High Bay occupancy sensors lead the industry in technology and proven quality.

Tackle the HID Challenge

HID lighting is a major source of energy waste and the most difficult lighting to control. Of the 40 million HID fixtures in the U.S., less than 3% are controlled...needlessly wasting energy dollars. Manufacturing, warehouses, distribution centers, and gymnasiums typically use HID lighting sources. However, these lighting sources can not be switched ON/OFF like fluorescent and incandescent lighting sources.

The LightBAT G2 Dual Level HID controller switches HIDs from 100% to 50% power with minimal or no lamp life degradation. The result is minimal lighting changes with maximum cost-savings; allowing 50% of the energy to be saved during periods of no occupancy.

Conquer High Output Fluorescents

With the increased use of high-output fluorescent fixtures, Hubbell Building Automation's Fluorescent High Bay sensors increase savings even more by turning off the lamps when no one is around. Designed to provide versatile ON/OFF lighting control, these passive infrared sensors feature HBA's unique Smart Cycling[™] technology that ensures all lamps receive the same number of switching cycles.



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LightBAT G2

HID Dual Level Switching Controller and PIR Sensor Page 79



LB1 LightBAT G2; Supports: 175W Metal Halide / 175W, 200W Pulse Start Metal Halide

LB1EXTP1

LightBAT G2 with 4 Pin Low Voltage Interface; Supports: 175W Metal Halide / 175W, 200W Pulse Start Metal Halide

LB2

LightBAT G2; Supports: 250W, 320W, 350W, 400W Metal Halide / 250W, 320W, 350W, 400W, 450W Pulse Start Metal Halide / 250W High Pressure Sodium / 400W High Pressure Sodium (Max. operating temperature @ 55°C) LB2EXTP1

LightBAT G2 with 4 Pin Low Voltage Interface; Supports: 250W, 320W, 350W, 400W Metal Halide / 250W, 320W, 350W, 400W, 450W Pulse Start Metal Halide / 250W High Pressure Sodium / 400W High Pressure Sodium (Maximum operating temperature @ 55°C) LB3

LightBAT G2; Supports: 1,500W, 1,650W Metal Halide (Max. operating temp. @ 55°C) / 1,000W Metal Halide (Max. operating temp. @ 65°C) / 750W, 1,000W Pulse Start Metal Halide (Max. operating temperature @ 55°C / 600W, 1,000W High Pressure Sodium (Max. operating temperature @ 65° C)

LB3EXTP1

LightBAT G2 with 4 Pin Low Voltage Interface; Supports: 1,500W, 1,650W Metal Halide (Max. operating temp. @ 55°C) / 1,000W Metal Halide (Max. operating temp. @ 65°C) / 750W, 1,000W Pulse Start Metal Halide (Max. operating temperature @ 55°C) / 600W, 1,000W High Pressure Sodium (Max. operating temperature $@65^{\circ}$ C)

HBA WASP

Fluorescent High Bay Occupancy Sensor* Page 81

FHB140NP24V



HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 24VDC (UVPP or MP Series Power Pack required), White

FHB141NPUNV

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, I-SPST Output, 120-347 VAC, White FHBI42NPUNV

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 2-SPST Outputs, 120-347 VAC, White FHB141NP208

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 1-DPST Output, 208/240VAC, White

FHB141NP480

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 1-DPST Output, 480VAC, White

FHB140PS24V

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, Photosensor, 24VDC (UVPP or MP Series Power Pack required), White

FHB141PSUNV

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 1-SPST Output, Photosensor, 120-347VAC, White

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High Bay Controls Quick Reference Guide

FHB142PSUNV

HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 2-SPST Output, Photosensor, 120-347VAC, White FHB141PS208 HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 1-DPST Output, Photosensor, 208/240VAC, White FHB141PS480 HBA Wasp Fluorescent High Bay Sensor,

1.4 area lens, 1-DPST Output, Photosensor, 480VAC, White FHBADAPTOR

HBA Wasp Fluorescent High Bay Mounting Extension Adapter FHBMASKKIT

HBA Wasp Fluorescent High Bay Sensor Masking Kit - 10 pack



FHBSTINGER

HBA Wasp Stinger – Fluorescent High **Bay Sensor External Photosensor** Control Module, 24VDC



See the Light. Maximize energy savings and increase productivity by harvesting the most abundant energy source around – daylight. With Hubbell Building Automation's Daylighting Controls, you can take advantage of natural light as a primary or contributing source of illumination to reduce or eliminate the need for artificial lighting. By reducing the dependency on artificial lighting in commercial, educational and retail spaces you can increase energy savings up to 75%.

Building Automation

Consider the Options

When deciding on what type of daylighting control you need, consider HBA's solutions for both dimming and switching control. Dimming systems continuously adjust light output by signaling dimming ballasts to provide the highest level of flexibility and the highest energy savings. Dimming systems are perfect for classrooms, offices and retail stores.

Switching systems turn lighting OFF or ON when the available natural light is sufficient or insufficient. Switching systems also have a lower initial cost, and are most often recommended for spaces where non-stationary tasks will be performed such as warehouses, storage areas, atriums, lobbies and parking facilities.





Daylighting Controls



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LUXSTATDCM

Luxstat Dimming Control Module Page 87



LUXSTATDCM Luxstat Dimming Control Module, 3 zones, 24V DC

LUXSTATOCM

Luxstat ON/OFF Control Module Page 89



LUXSTATOCM Luxstat ON/OFF Control Module, 3 zones, 24V DC

LUXSTATPP

Luxstat Power Pack





LUXSTATPP Luxstat Power Pack for Luxstat Control Modules

LUXSTATOCM1Z

Luxstat Single Zone ON/OFF Control Module Page 93



LUXSTATOCM1Z120



LUXSTATDNCM

Luxstat Day/Night Control Module with Clock Page 95

LUXSTATDNCM120

Luxstat Day/Night Control Module with Clock, 120VAC, DIN Rail Mount LUXSTATDNCM277 Luxstat Day/Night Control Module with Clock, 277VAC, DIN Rail Mount

LUXSTATLS

Luxstat Light Sensor Page 97

LUXSTATLS Luxstat Light Sensor - Indoor LUXSTATLSO Luxstat Light Sensor - Outdoor

LUXSTATSW

Low Voltage Wall Switches for Luxstat Page 99



LUXSTATSW4IV 4-Button Wall Switch LUXSTATSW4WH 4-Button Wall Switch LUXSTATSW2AUTOIV 2-Button Wall Switch LUXSTATSW2AUTOWH 2-Button Wall Switch LUXSTATSW2DIMIV 2-Button Wall Switch LUXSTATSW2DIMWH 2-Button Wall Switch LUXSTATSW1IV 1-Button Wall Switch LUXSTATSW1WH 1-Button Wall Switch

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Daylighting Controls Quick Reference Guide

DLC7

Continuous Dimming Control Page 101



DLC7 Single Zone Continuous Dimming Control

DLCPCI/DLCPCO DLCPCA/DLCPCS

Photocell Sensors Page 103



DLCPCI/DLCPCO DLCPCA/DLCPCS **Photocell Sensors**

Seventeen

DLCPCC Photocell Controller Page 105



DLCPCC Photocell Controller



A sensor for every application. The LightHAWK[™], OMNI[™] and LightOWL[™] sensors utilize IntelliDAPT[®] technology to control lighting, save energy, and maximize cost savings. Industry-Leading Technology. Hubbell Building Automation sets the standards for energy-saving lighting control technology. Our line of passive infrared (PIR), ultrasonic (US), and dual technology occupancy sensors use our patented IntelliDAPT[®] technology, designed specifically to save you energy and money.

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IntelliDAPT Technology... Smart Technology for Today's Needs.

IntelliDAPT Technology is an HBA patented innovation that delivers benefits to both building owners and occupants. The building owner achieves reduced energy costs, fewer adjustments and less maintenance while the building occupant experiences fewer false on and off's and frequency shift between the emitted and reflected sound disturbances. IntelliDAPT Technology occupancy sensors waves. Movement by a person or object within a space causes use microprocessors that make all the decisions for setting a shift in frequency, which the sensor interprets as occupancy. adjustments. Internal software constantly monitors the While US occupancy sensors have a limited range, they are controlled area and automatically adjusts the sensitivity excellent at detecting even minor motion such as typing and and timer based on environmental history. This means filing, and they do not require an unobstructed line-of-sight. that instead of manually adjusting the sensor for seasonal This makes US technology sensors ideal for an application like changes, modified airflow, furniture layout or occupancy an office with cubicles or a restroom with stalls. pattern changes, the sensor automatically adjusts itself. **BENEFITS:** These automatic adjustments eliminate the need for multiple manual adjustments by maintenance personnel or outside contractors. HBA offers IntelliDAPT Technology throughout Cost efficient its product offering—wall switches, ceiling and wall mount sensors—in conjunction with dual technology, ultrasonic and passive infrared products.

The Right Technology for the Right Application



Dual technology occupancy sensors combine both passive infrared (PIR) and ultrasonic (US) technologies for maximum

reliability. Because US and PIR need to both detect occupancy to turn lighting on, dual technology sensors minimize the risk of lights coming on when the space is unoccupied—false triggering. Continued detection by only one technology then keeps lighting on as necessary. Dual technology sensors offer the best performance for most applications.

BENEFITS:

- Track occupancy with two sensing methods
- Minimizes false triggering
- Consistent, reliable operation

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Occupancy Vacancy Sensors

Ultrasonic (US) technology senses occupancy by bouncing sound waves (32 kHz or 40 kHz) off of objects and detecting a

- Detect small motion
- Sees around obstructions

Passive infrared (PIR) technology senses occupancy by detecting the movement of heat emitted from the human body against the

background space. Unlike US technology, PIR sensors require an unobstructed line-of-sight for detection. These sensors use a segmented lens, which divides the coverage area into zones. Movement between zones is then interpreted as occupancy. PIR sensors are ideal for detecting major motion (e.g. walking), and they work best in small, enclosed spaces with high levels of occupant movement.

BENEFITS:

- Long range detection
- Reliable triggering
- Cost efficient





Sensor for Incandescent Lighting **RWSOSDINC120** Residential Occupancy Sensor with Dimmer for Incandescent Lighting

RWSVSINC120 Residential Vacancy Sensor for Incandescent Lighting **RWSVSDINC120** Residential Vacancy Sensor with Dimmer for Incandescent

IWSZPMW Passive Infrared Wall Switch Sensor **IWSZPMI** Passive Infrared Wall Switch Sensor

TD200 Digital Programmable Timer

LVSM1NP Momentary, 1 button LVSM2NP Momentary, 2 button LVSM1PL Momentary, 1 button, w/Pilot LED LVSM2PL Momentary, 2 button, w/Pilot LED

OMNIDT500 Dual Technology Ultrasonic and Passive Infrared Ceiling Sensor **OMNIDT500RP** Dual Technology Ultrasonic and Passive Infrared Ceiling Sensor OMNIDT1000 Dual Technology Ultrasonic and Passive Infrared Ceiling Sensor OMNIDT1000RP Dual Technology Ultrasonic and Passive Infrared Ceiling Sensor **OMNIDT2000** Dual Technology Ultrasonic and Passive Infrared Ceiling Sensor OMNIDT2000RP Dual Technology Ultrasonic and Passive Infrared Ceiling Sensor

OMNIUS500 Ultrasonic Ceiling Sensor **OMNIUS500RP** Ultrasonic Ceiling Sensor **OMNIUS1000** Ultrasonic Ceiling Sensor OMNIUS1000RP Ultrasonic Ceiling Sensor **OMNIUS2000** Ultrasonic Ceiling Sensor OMNIUS2000RP Ultrasonic Ceiling Sensor

OMNI OMNIIR | OMNIIRP



OMNIIR Passive Infrared Ceiling Sensor **OMNIIRRP** Passive Infrared Ceiling Sensor **OMNIIRL** Passive Infrared Ceiling Sensor **OMNIIRLRP** Passive Infrared Ceiling Sensor

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OMNI OMNIDIA | OMNIDIARP Page 143 **OMNIDIA** Dual Technology Acoustic and Passive Infrared Ceiling Sensor **OMNIDIARP** Dual Technology Acoustic and Passive Infrared Ceiling Sensor **PIR1000H** Page 145 PIR1000H Passive Infrared Ceiling Senso for Hallway Applications CUI5002000P Page 147 CUI5002000P120 Dual Technology Ultra sonic and Passive Infrared Line Voltage **Ceiling Sensor** CUI5002000P277 Dual Technology Ultra sonic and Passive Infrared Line Voltage **Ceiling Sensor** C5002000P Page 149 C5002000P120 Ultrasonic Line Voltage Ceiling Sensor C5002000P277 Ultrasonic Line Voltage Ceiling Sensor C8001500P Page 151 C8001500P120 Ultrasonic Line Voltage Ceiling Sensor C8001500P277 Ultrasonic Line Voltage **Ceiling Sensor PIR10** Page 153 **PIR10P** Passive Infrared Line Voltage Ceiling Sensor PIR10EMS Passive Infrared Low Voltage **Ceiling Sensor** LightOWL LODT | LODTRP Page 155 LODT Ultrasonic and Passive Infrared Wall and Ceiling Sensor . LODTRP Ultrasonic and Passive Infrared Wall and Ceiling Sensor

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Occupancy Vacancy Sensors **Quick Reference Guide**

Page 157	
Ţ	LOIRWV Passive Infrared Wall and Ceiling Senso LOIRWVRP Passive Infrared Wall and Ceiling Sensor
Page 150	
Tuge 159	LOIRHB Passive Infrared High Bay Sensor LOIRHBRP Passive Infrared High Bay Sensor
LightOWL LOD	
Page 161	
	LODIA Passive Infrared and Acoustic
(_)	Wall and Ceiling Sensor
-	Wall and Ceiling Sensor
UVPP UVPPM	
1 uge 105=107	UVPP Universal Voltage Power Pack
	UVPPM Universal Voltage Power Pack with Manual ON/OFF
MP Power Pac	c"A" Series
Page 169	MP347A Mini-Pack 347V
×	MPSA Mini-Pack Slave Auxiliary
Quick to Instal	l System
	CAB10 10' Plenum rated
	CAB20 20' Plenum rated
	STM2F Splitter T male, 2 female
RRU	
Page 173	RRI1120
	RRU277
:	
RR1SPDTC	
Page 1/5	RR2SPDTC
	RR2SPDTC120

Twenty**1**

Hubbell Building Automation

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HBA Business Services

The Business Services Group of HBA is dedicated to offering the highest quality of service by providing a direct point of contact, available daily from 7am to 6pm CST. The Business Services Group is responsible for ensuring that you receive the best possible level of service.

Technical Services

HBA's technical services include quotations, Factory Certified Occupancy Sensor Layouts, technical phone support, application support, and technical documentation.

Quotations

HBA's Quotations Group is dedicated not only to creating a professional and accurate quotation but also to working with you to ensure that the needs of your project are fulfilled.

The Quotations Group also creates detailed submittal packages—which include all necessary product documentation and project-specific information-and coordinates with the Technical Services Group to provide detailed drawings.

Factory Certified Occupancy Sensor Layouts

A Factory Certified Occupancy Sensor Layout from HBA means that we guarantee the type and placement of each sensor on every drawing. You can send your electronic AutoCAD files, and we will work with you to create not only a Factory Certified Layout but also a competitive layout with a detailed Bill of Materials. We can also take paper drawings and convert them to electronic format. If you need hard copies, let us know, and we will create professional paper drawings in any size specification.

Technical Phone Support

HBA is a complete solution. Since our products are designed and manufactured under one roof, our Technical Services staff has the resources to handle your application or technical product questions.

Premier Customer Service and Quotations

Our Customer Service Representatives take great pride in giving a personalized level of service. Detailed product knowledge, fast and accurate order entry, timely order acknowledgements, and order management-from initial ordering to shipping.

Contact Information

Telephone—Austin, TX USA	512.450.1100
Telephone—Toll Free	888.698.3242
Fax—Orders Only	512.450.0864
Fax—General	512.450.1215
Fax—Toll Free Customer Service	877.783.9201
Corporate Website	hubbell-automation.com

Technical Drawing submittal

hba-cad@hubbell-automation.com



Energy **Saving** Lighting Controls

Networked Lighting Controls page 25

High Bay Controls page 77

Daylighting Controls page 85

Occupancy | Vacancy Sensors page 107

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TABLE OF CONTENTS
LX 4 8 16 32 48
LXRL
LXBC
LXBR
LXTB
LXJNSYS
LXSW
LXKEY
LXOMNIDT2000
LXPS
LXDCMIFT
LXS
LXLPM2
LXRRM
LXRWRSPLY
LXTERMINATOR
LXENDM
LXUL92461
LXWRDV

hubbell-automation.com



Energy **Saving** Lighting Controls

Custom Engraved Switch Station Buttons 65
TC4
TC8
TCMODEM
TCTIM
TCPC





PRODUCT IMAGE

NOTE: Touch Screen Tablet
Graphic User Interface (GUI) not
included. Order Separately.



Physical	NEMA 1 enclosure	
	 Pre-drilled mounting holes, KO's provided on top and bottom 	
	Removable sub panel	
	• 4, 8, 16, 32, and 48 relay enclosures with hinged locking door	
Electrical	120/277/347 VAC multi-tap transformer	
	• 120, 277, and 347 VAC 20 Amp Single Pole Relays	
	• 208, 240, and 480 VAC 20 Amp Double Pole Relays	
Certifications	• UL and cUL listed (UL 508, UL 916 and UL 924)	
Memory	Non-volatile program storage	

ORDERING INFORMATION





LX 4 8 16 32 48 LX Lighting Control Panels 4, 8, 16, 32, and 48 Relays

KEY FEATURES

- Handheld Touch Screen Graphical User Interface
- 20 Amp mechanically latching relays
- Multiple size enclosures available (4, 8, 16, 32, and 48 relays)
- Topology-Free, Polarity-Insensitive, 2-wire communication
- LonMark[®] certified
- Feature-rich scheduling functions
- 365-day time clock
- Automatic Daylight Savings Time and leap year compensation
- Built-in Astronomical Time Clock for Sunrise/Sunset programming
- UL Listed
- 2-year warranty

NUMBER OF SINGLE POLE RELAYS	NUMBER OF DOUBLE POLE RELAYS
00-48* (Depending on Size)	00-24* (Depending on Size)
*NOTE: Number of poles cannot exceed the Example: A LX Series Relay Panel is comprisit the interior and 1 for the enclosure — they	relay panel size. ed of 2 separate part numbers, 1 for must be the same size.
EXAMPLE: 32 Relay Interior with 4 Single Pole Relays a Enclosure to complete specifications - LXEN.	nd 4 Double Pole Relays: LXIN32 04 04 325
]
TRIM]
F Flush	
S Surface	
S Surface	
S Surface	

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SPECIFICATIONS	
Physical	 Mechanically held latching relay
	 Mounts in LX panel to supplied mounting bra
	 Tool-less insertion and removal of relay
Electrical	UL endurance test 150k operations at 20A, 30
	 14,000 Amp short circuit current @277VAC*
	• 20 Amp Single Pole — 120, 277 & 347 VAC
	• 20 Amp Double Pole – 208, 240 & 480 VAC
	• ½HP@110-125VAC, 1 ½HP@220-277VAC
Certifications	• UL & cUL Listed (UL 508)

*Applicable to Single Pole Relay only.

ORDERING INFORMATION



WIRING DIAGRAMS

LXRL Relays for LX Relay Panels



KEY FEATURES

- Robust and reliable mechanically latching relay
- Suitable for high in-rush loads up to 2,000 Amps
- 14,000 Amp short circuit current rated @ 277 VAC (Single Pole),
- 120, 277, and 347 VAC Single Pole
- 208, 240, and 480 VAC Double Pole
- Built-in manual override lever & ON/OFF indicator
- True relay status
- UL listed
- 2-year warranty

acket

00VAC



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PRODUCT IMAGE



NOTE: Touch Screen Tablet Graphic User Interface (GUI) not included.

PRODUCT	DIMENSIONS



			Н	W	D
12 Breaker	100 amp	Main Lugs Only	33"	20"	5.75"
Panel		Main Breaker	36"	20"	5.75"
18 Breaker	100 amp	Main Lugs Only	36"	20"	5.75"
Panel	100 amp	Main Breaker	42"	20"	5.75"
30 Breaker Panel	100 amp	Main Lugs Only	42"	20"	5.75"
		Main Breaker	48"	20"	5.75"
	225 amp	Main Lugs Only	45"	20"	5.75"
		Main Breaker	51"	20"	5.75"
42 Breaker Panel	225 amp	Main Lugs Only	51"	20"	5.75"
		Main Breaker	57"	20"	5.75"
	400 amp	Main Lugs Only	57"	20"	5.75"
		Main Breaker	69"	20"	5.75"

SPECIFICATIONS

Physical	 NEMA 1 enclosure, surface or flush mount 	
	 KO's provided on top and bottom 	
Electrical	 120 VAC input control voltage at terminal block 	
	 100Amp, 225Amp or 400Amp Lugs Only or N 	
	CU/AL Lugs Bottom Feed standard	
Certifications	• UL listed (UL 916)	

ORDERING INFORMATION

LXBC			В		Н	
MODEL	SYSTEM VOLTAGE	MAINS	FEED	BREAKER RELAY SPACES	COMMUNICATIONS	ENCLOSURE
LXBC LX Breaker Control Panel	1 120/208, 3 Phase, 4 Wire 2 277/480, 3 Phase, 4 Wire	IL 100 Amp Main Lugs Only IC 100 Amp Main Circuit Breaker 2L 225 Amp Main Lugs Only 2C 225 Amp Main Circuit Breaker 4L 400 Amp Main	B Bottom Feed Only (Top Feed is not available)	 12 Spaces 18 Spaces 30 Spaces 42 42 Spaces NOTE: 42 space is available in 225A and 400A main size only. 	H HBA LX-Lon	1S NEMA 1 Surface 1F NEMA 1 Flush
		Lugs Only 4C 400 Amp Main Circuit Breaker	Example: Panel, Contro separate line items: 1 ea LXBC11CB301 100A Main Ci	olled Circuit Breaker/Relays, and H1S ircuit Breaker, 120/208V, 3 Phas	Non-Controlled Breakers	must be ordered as
			30 Space, NE 18 ea LXBR120C – . 12 ea LXBR120N –	MA 1 Surface, Bottom Feed, CU, 20A, 1P, Controlled Circuit Break 20A, 1P, Non-Controlled Circuit	/AL Lugs ker/Relays (18 ea) breakers (12 ea)	



NOTES

LXBC Breaker Control Panels 12, 18, 30, 42 Breaker/Relays



KEY FEATURES

- Unique handheld touch screen graphical user interface (GUI) (Order Separately)
- 20 and 30 Amp mechanically latching circuit breaker/ relays
- Multiple size enclosures available (12, 18, 30, and 42 spaces)
- 100 Amp, 225 Amp and 400 Amp bussing Main Lugs or Main Circuit Breaker
- 120/208V, 3PH, 4W or 277/480V, 3PH, 4W
- LonMark[®] certified
- Topology-Free, Polarity-Insensitive, 2-wire communication
- Feature-rich scheduling functions
- 365-day time clock
- Automatic Daylight Savings Time and leap year compensation
- Built-in astronomical time clock for sunrise and sunset programming
- UL listed
- 2-year warranty

• 12, 18, 30, and 42 space enclosures with hinged locking door

ock Main Circuit Breaker, • 120/208V, 3PH, 4W or 277/480V, 3PH, 4W system voltage, 14KAIC @277/480V, 65KAIC Series Rated



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PRODUCT IMAGE







SPECIFICATIONS	
Physical	 Mechanically held latching
	 Mounts in LXBC panel bu
	 Built-in ON/OFF indicator
	 Power to panel must be of
Electrical	• 600 VAC 20 Amp and 30 /
	 Non-Control circuit break
	• 14KAIC @277/480V, 65K
	• Circuit Breaker Relays – I
Operating environment for NEMA 1 rated equipment	Location: interior space
	Operating temperature: (
	 Relative humidity (non-c
Certifications	 UL listed (UL 489)

ORDERING INFORMATION

LXBR			
MODEL	NO. OF POLES	AMP RATING	
LXBR LX Breaker Relay or Breaker	1 1-Pole 2 2-Pole 3 3-Pole	15 15 Amp 20 20 Amp 30 30 Amp 40 40 Amp 50 50 Amp 60 60 Amp 70 70 Amp 80 Amp 90 Amp 100 Amp 100 Amp	C N Breal availa 30A ONLY



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LXBR

LXBR

LXBR Circuit Breaker/Relays and Circuit Breakers for LXBC Panels

KEY FEATURES

- Robust and reliable 20 and 30 Amp mechanically latching Circuit Breaker/Relays
- Circuit Breaker/Relays are available in 1-pole to 277V and 2-pole to 480V
- Non-controlled Circuit Breakers are available in 1-pole to 277V and 2-pole or 3-pole to 480V
- All devices are rated for switching duty (SWD)
- 14,000 Amp short circuit current @ 277VAC
- Built-in ON/OFF indicator lever
- True relay status

ing circuit breaker/relay or non-controlled circuit breaker us with bolt into pre-drilled and tapped hole r lever on each circuit breaker/relay disconnected for insertion and removal of devices Amp Single and Double Pole Circuit Breaker/Relays kers 15A – 60A, 1,2, and 3-pole **KAIC Series Rated** Maximum duty cycle of 6 Open/Close cycles per minute

0°–50° C (32°–112° F) condensing): 10%-90%

Controlled Non-Controlled

E: Controlled ker/Relays are lable in 20A and 1-Pole and 2-Pole







Programming and configuration	Device used to program the functionality of o		
	 Can program security codes 		
Physical	Handheld device		
	Quarter VGA display (320 x 240 pixels)		
Electrical	 5 VDC power—supplied from the LX panel 		
Operating environment	Location: interior space		
	Operating temperature: 0°-50° C (32°-122°		
	Relative humidity (non-condensing): 10%–9		

ORDERING INFORMATION



APPLICATION

- The LXTB is used to program the LX Networked Lighting Control System. It is purely an interface device and holds no programming.
- The LXTB can be connected to any panel in the system using an RJ-45 cable provided with the unit. • Only one LXTB is required per network.
- The LXTB is supplied with a mounting cradle that can be installed in any panel in the system. The cradle provides a storage location for the tablet and can be left connected for user interface at the panel.
- Once programmed the LX Networked Lighting Control System retains all functionality and commands in it's non-volatile memory and
- can operate without the presence of the LXTB on the network.
- The LXTB can be stored separately in a secure location to protect the system from being accessed by unauthorized personnel.



NOTES



LXTB

LX Touch Tablet Graphical User Interface

KEY FEATURES

- Portable handheld touch screen
- Graphical user interface (GUI)
- Context-sensitive help
- Quarter VGA display (320 x 240 pixels)
- High-contrast backlit LCD screen
- Programmable security codes
- 2-year warranty

other LX lighting control system devices

90%



PRODUCT IMAGE



Notes:

LXTB Graphical User Interface Tablet connects to any LX Panel with RJ45 Cat 5E Cable included with tablet.



INTERFACE SCREENSHOTS



ORDERING INFORMATION

	MODEL
LXJNSYS	LX JENEsys Controller with Management Software, LON Network Module and Power Supply
LXJNSYS2LON	LX JENEsys Controller with Management Software, LON Integration Support, LON Network Modules and Power Supply
LXJNSYS2BACNETIP	LX JENEsys Controller with Management Software, BACNET IP Integration Support, LON Network Module and Power Supply
LXJNSYS2BACNETMSTP	LX JENEsys Controller with Management Software, BACNET MS/ TP Integration Support, LON Network Module and Power Supply
LXJNSYS2MODBUS	LX JENEsys Controller with Management Software, MODBUS Integration Support, LON Network Module and Power Supply
LXJNCOM56KM1*	LX JENEsys 56Kps Modem for LX JENEsys Controller

LXJNSYS LX JENEsys[™] Network Interface Components

KEY FEATURES

• PROGRAMMING INTERFACE:

- Real-time programming and monitoring of the LX lighting control system through your PC

- No software required—built-in web server provides connection via any Internet Explorer [®] compatible browser

-Graphical User Interface (GUI) makes programming both intuitive and simple

-Local or remote access via the local network or Internet -Can connect multiple users at once

-Sophisticated user account/password manager

• SYSTEM INTEGRATION:

-Integrates LX lighting control systems and Building Automation Systems (BAS)

-Integrates with LonWorks [®], BACnet[™] (IP and MSTP), and Modbus[™] standards

-Automatically generates all required control points and documentation for integration with the selected protocol

-Powered by the revolutionary NiagaraAX Framework®

APPLICATION

- The LX JENEsys device is used to allow the end-user remote access to the LX Networked Lighting Control System. A connection to the building local network is required. The device contains a user settable static IP for this connection.
- The LX JENEsys requires a 120 VAC 15 or 20 Amp receptacle for connection of the included power supply.
- All versions of the LX JENEsys contain the on-board web server for remote access.
- Each LX JENEsys device is Building Automation System specific. The integration system standard needs to be determined in order to obtain the correct device prior to ordering.

Note: Not available with LXJNSYS2LON.







ADDITIONAL PRODUCT IMAGES



SPECIFICATIONS Network interface • FTT-10 or LPT-10 Programming and configuration • Programmable over a network using the LX Touch Tablet or any other LX programming device Physical Injection-molded switch plate and switches • Fits standard (Decorator style) wall switch plates (not included) • Mounts to standard electrical gang box Electrical • LPT-10 version: powered from Link Pow • FTT-10 version: 24 volts AC or DC; .5Am Operating environment Location: interior space • Operating temperature: 0°-50° C (32° • Relative humidity (non-condensing): Capacities • 1–6 buttons Certifications LonMark 3.3 certified

ORDERING INFORMATION



HUBBELL

NOTES

6

LXSW LX Networked Lighting Controls Switch Stations



	8
2	
	0

KEY FEATURES

- Attractive, architecturally pleasing design
- Flexible programming of switch functionality
- Programmable active and inactive times
- Topology-Free, Polarity-Insensitive, 2-wire communication
- FT-10 and LPT-10 versions available
- LonMark[®] certified
- 1–6 buttons with or without pilot
- Mounts to standard single-gang box
- 2-year warranty

(
ver Module		
nps required		
–122° F)		
0%–90%		



Switch Station Controls Diagram



Wiring Diagram



SPECIFICATIONS Network Interface • LPT-10 Programming / Configuration Physical Stainless steel faceplate • Barrel-style locking switch mechanism Mounts to standard electrical gang box Electrical • LPT-10: Powered from Link Power Module Operating environment Location: Interior space • Operating temperature: 0° to 50°C (32° to 122°F) • Relative Humidity: 10% to 90% non-condensing Warranty Two-Years



LP

NOTES:

ORDERING INFORMATION - ACCESSORIES (ORDER SEPARATELY)

LXKEYSWFACEPLT LXKEYSWSET

LX Keyswitch Face Plate Replacement Spare Key Set (2) for LXKEY1LP

Connection to FT Network	Connection to 24 VAC / DC Power Supply

FT Version (view of back)



Connection to LP Network (Network Connections are wired together internally)

LP Version (view of back)



LXKEY

LX Networked Lighting Controls Keyed Switch Station

KEY FEATURES

- Stainless steel face plate with barrel-lock mechanism and pilot light
- Flexible programming of switch functionality
- Programmable Active & Inactive times
- Topology-Free, Polarity-Insensitive, 2-wire communication
- Mounts in standard single-gang box
- Two-year warranty





1. LXKEY is available with 1 keyswitch only and "LP" Link Power only. 2. LXKEY available in Stainless Steel only (not available in white or ivory).



LXKEY

Switch Station Wiring Diagram



Connection to LP Network (Network Connections are wired together internally)

LP Version (view of back)

NOTES

Switch Station Control Diagram



111. 1100 偷 111. LONMARK'3.3

RANGE DIAGRAM



SPECIFICATIONS Network Interface • FTT-10 or LPT-10 IntelliDAPT Auto reset from test setting Self-adjusting timer LED lamp Red—infrared motion • Automatic mode: 8-30 min. (self-adjusts ba Timer timeout • Test mode: 8 seconds (for an easy check at ir Ultrasonic output •32kHz Passive infrared Dual element pyrometer; 12-element cylind Programming and configuration • LX mode—programmed over network using the LX Touch Tablet, JENEsys™ Coverage • 2,000 square feet Indoor use only Operating environment • Operating temperature: 32°-104° F (0°-40° C) Construction Color coded leads are 6" long Size and weight • Size: 4.5" diameter, 1.5" height (114 mm diameter, 38mm height) Off white Color Mounting Mounting base provided with sensor Certifications LonMark 3.3 certified Warranty 5 years

ORDERING INFORMATION





LXOMDT2000

LX OMNI[™] Dual Technology Ultrasonic and Passive Infrared Ceiling Occupancy Sensor featuring IntelliDAPT™



KEY FEATURES

- FT-10 and LPT-10 versions available
- Topology-Free, Polarity-Insensitive, 2-wire communication
- IntelliDAPT self-adaptive technology no manual adjustment required
- All-Digital, dual technology (Ultrasonic [US] and passive infrared [PIR]) sensor
- · Sensors can be adjusted remotely from LX Touch Screen Tablet
- Non-volatile memory for sensor settings
- 2000 square feet coverage
- UL and cUL listed
- LonMark[®] certified
- 5-year warranty



	 Self-adjusting ultrasonic and passive infrared thresholds
	 Automatic false-on/false-off corrections
	Green—ultrasonic motion
ised on occupancy) nstallation)	• Manual Mode: 2-30 min.
drical rugged lens	

• Relative humidity (non-condensing): 0% to 95%

• Housing—rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors

• Weight: 5.0 oz (142g)

• Recommended MAX Mounting height: 12ft UL and cUL listed





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ADDITIONAL PRODUCT IMAGES



DCLPCO

NOTE: Daylight Controls Require Photocell Control Module.

SPECIFICATIONS			
Network interface	• FTT-10 or LPT-10		
Programmable functionality	Each on and off set point can be programmed to control a single relay, group of relays, or preset scene		
	 Active and inactive times 		
Programming and configuration	Programmable over a network using the LX Touch Tablet or via the	e LX Photo Sensor Control Module LonWorks software plug-in	
	(available at www.hubbell-automation.com)		
Capacities	6 programmable on and off set points with adjustable deadband		
Network modes	LX Lighting Control System	LON-based networks	
Photocell ranges	 0–1,000 foot-candle range with 1 foot-candle resolution 		
Electrical	LXPSCMLP: Powered from the Link Power network		
	 LXPSCMFT: 16–30 Volts AC or DC; .5 Amps required 		
Operating environment	 Indoor use only 	 Operating temperature: 32°-104° F (0°-40° C) 	
	 Relative humidity (non-condensing): 0% –95% 		
Size and weight	• Size: 6.25" x 3.75" x 1.5"	• Weight: 6.0 oz	
Color	Photo Sensor Modules—black	Photo Sensor Photocells—white	
Mounting	Mounts to a 35mm DIN rail		
Certifications	LonMark 3.3 certified		
Warranty	• 2 years		



ORDERING INFORMATION - PHOTO SENSORS		
LXPSPCI	LX Photo Sensor Photocell Indoor	
LXPSPCO	LX Photo Sensor Photocell Outdoor	
LXPSPCS	LX Photo Sensor Photocell Skylight / Atrium	

HUBBELL Building Automation, Inc. LXPS

and Sensors



DCLPCA/S

- **KEY FEATURES**
- Turns lighting on and off based on available natural light

LX Photo Sensor Control Module

- Network-based photosensor control module
- Real-time foot-candle levels transmitted over a network on demand to a tablet
- 3 available sensor heads—Indoor, Outdoor, and Skylight/Atrium
- 0–1,000 foot-candle range with 1 foot-candle resolution
- 6 programmable on and off set points
- Programmable active and inactive times (per module)
- Topology-Free, Polarity-Insensitive, 2-wire communication
- FT-10 and LPT-10 versions available
- LonMark[®] certified
- Mounts to standard DIN Rail
- 2-year warranty

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NOTE: 1. FT only.



SPECIFICATIONS	
Network interface	• FTT-10
Programmable functionality	 Maintained contact switch input: toggle
	- on only
	- off only
	 Momentary contact switch input: - push butt
	- push button on only
	- push button off only
	Preset
	Timed on
Programming and configuration	Programmable over a network using the LX Television
	(available at www.hubbell-automation.com)
Capacities	Maximum of 6 momentary or maintained sw
Network modes	LX Lighting Control System
	 LON-based networks
Electrical	• 16–30 Volts AC or DC; .5 Amps required
Operating environment	Indoor use only
	• Operating temperature: 32°-104° F (0°-40°
	Relative humidity (non-condensing): 0%–95
Size and weight	• Size: 6.25" x 3.75" x 1.5"
	• Weight: 6.0 oz
Color	• Black
Mounting	 Mounts to a 35mm DIN rail
Certifications	LonMark 3.3 certified
Warranty	• 2 years

ORDERING INFORMATION





NOTES



KEY FEATURES

- Programmable interface for dry contact devices
- Flexible programming of switch functionality
- 6 individual dry contact inputs with or without pilots

LXDCIMFT

LX Dry Contact Interface Module

- Accommodates 2- and 3-wire devices (momentary or maintained)
- Programmable active and inactive times (per module)
- Topology-Free, Polarity-Insensitive, 2-wire communication
- LonMark[®] certified
- Mounts to standard DIN rail
- 2-year warranty

ton toggle

Touch Tablet or via the LX Dry Contact Interface Module LonWorks software plug-in

vitches (2- or 3-wire)

° ()

NOTE: 1. FT only.

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Building Automation, Inc.

WIRING DIAGRAMS



Use 2, 3, or 4-conductor, 20AWG non-shielded cable as appropriate. 1000ft. maximum length.

Dry Contact Interface Module I/O Port Functionality	
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2., 00.10000 1100		ieu on anty
Contact Type	I/O Port Program Mode	I/O Port Functionality
	Maintained, Toggle	Closed contact = ON,
Maintained		open contact = OFF
Contact	Maintained, On Only	ON functionality
Switch		with contact closure
Input	Maintained, Off Only	OFF functionality with
1		contact release (open)
	Push Button, Toggle	First actuation = ON,
Momentary		second actuation = OFF
Contact	Push Button, On Only	ON functionality
Switch		with contact closure
Input	Push Button, Off Only	OFF functionality
mpac		with contact closure
	Push Button, On and Of	f SPDT functionality
		with or without center off
	Preset	Assigned Preset
		activated/reactivated
		with contact closure
	Timed On	Timer activated/reactivated
		with contact closure



SPECIFICATIONS	
Load requirements	 LXS05—0.2A minimum; 5.0A maximum
	LXS20—1.0A minimum; 20.0A maximum
Power requirement	• 120 or 277 VAC
	 No neutral required
Connections	 2-wire connection; SPST
	 3-wire connection; SPDT—three-way
Certifications	UL and cUL listed
Mounting	Single-gang NEMA style switch box
	Standard or Decorator style wall plate (not in
Warranty	• 5 years

ORDERING INFORMATION





LXS LX Sentry Switch Remote Line Voltage Light Switch with Local Override

KEY FEATURES

- Standard wall switch ON/OFF operation
- Toggle or Decorator style • Mechanically switches to OFF position when power is interrupted for 5 seconds
- · Locator light illuminates switch when lights are off
- UL and cUL listed
- Switches operate between specific load ranges listed below

ncluded)

1. Not available in white or ivory. 2. Available in white or ivory only.

Building Automation, Inc.



HUBBELL

120/277/347 VAC In

Circuit

HUBBELL

rocessor Board

M

elays Relay Relays Board

LX48 Panel

LXTB Graphical Interface User

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LX Sentry Switch

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Load

Load

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LX Sentry Switch

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LX Sentry Switch

Traveler must cross

Two Location Operation

]。

Single Location Operation

LX Sentry Switch

LX Sentry Switch

Load

PRODUCT IMAGE



SPECIFICATIONS			
Power supply	Rated input voltage: 120 VAC (85-132V)		
	Rated frequency: 50/60 Hz		
	Rated input current: 0.7A		
Output to bus	• Output voltage: 41.5V; +/-2.2%		
	• Residual ripple: <80mV at 10 kHz (200mV at f>200kHz)		
	Output current: 1A (supports approximately 56 LX Series devices)		
	(For larger networks, an additional LX Link Power Module and LX		
	Router/Repeater Module can be added to expand the LX network)		
	 Overload protection: typical at 1.6A; permanent short circuit proof with pulsing "try of restart" 		
Connectors	• Screw terminal		
Operating environment	Indoor use only		
	• Operating temperature: 32°–104° F (0°–40° C)		
	Relative humidity (non-condensing): 0%–95%		
EMC	• Emission: EN61,000-6-3; class B; EN50090-2-2		
	• Immunity: EN61,000-4-2/3/4/5/6; class A		
Dimensions	• 4.96″x 2.28″x 3.54″		
Warranty	• 2 years		





APPLICATION

- The LXLPM2 Link Power Module is used to provide power over the 2-wire LX Network maximum of 56 devices OR 1500 feet of cable. This device is DIN rail mounted and incl a network termination device.
- The LXLPM2 requires a 120 VAC hardwire connection and can be placed anywhere in network segment.
- LX Relay or LXBC Breaker Relay panel networks without any devices do not require a LXLPM2 Link Power Module.
- When using a Link Power Module to supply power for devices, the devices should be specified with the "LP" option.

Relay Panel

LXLPM2 LX Power Link Module

KEY FEATURES

- Power supply for LX Series Link Power-based devices
- Short circuit and overcurrent monitoring
- Bus termination by switch
- DIN rail mount
- 2-year warranty

c for a	•	When networks grow larger than 56 devices or 1500 feet of cable then additional Link
cludes		Power Modules will be required. When additional LXLPM2 modules are connected they
		require an LXRRM repeater to separate each powered segment.
the	•	The LXRRM Repeater performs the function of isolating the separate power supplies while
		allowing network data to be transmitted through the repeater.
	•	The LXRRM Repeater requires 24VAC input power that can be provided with a LXPWRSLPY
		Power Module. The LXPWRSLPY requires a 120 VAC hardwire connection.







NOTES:

- 1. EACH LXLPM2 LINK POWER MODULE CAN SUPPLY POWER FOR UP TO 56 DEVICES OR 1,500 FT OF CABLE PER NETWORK.
- 2. ADDITIONAL SEGMENTS REQUIRE ONE LINK POWER EACH.
- 3. LXRRM REPEATERS ARE REQUIRED BETWEEN SEGMENTS.
- 4. SEGMENTS CAN ONLY HAVE ONE LINK POWER SUPPLY CONNECTED.
- 5. LINK POWER CAN BE CONNECTED AT ANY LOCATION ON THE SEGMENT.



SPECIFICATIONS	
Processor	 2 Neuron 3150[®] Chips; 10MHz
Service function	 Recessed service switch and service (wink) L
	 Dual tear-off barcode Neuron ID self-adhesiv
Channel type	TP/FT-10 to TP/FT-10
Input power	• 16-30 VAC or DC @ 24VA
	 Requires a separate power supply (the LXPW)
Mounting	• DIN Rail
Operating environment	• -40°185° F (-40°85°C)
	Relative humidity (non-condensing): 10%
Dimensions	• 3.9" x 3.9" x 1.0" (10cm x 10cm x 2.5cm)
Certifications	 UL 916; FCC A; CE Mark
Warranty	• 2 years

ORDERING INFORMATION



LXRRM LX Router/Repeater Module

KEY FEATURES

- Repeater for LX Series networks
- Screw terminal wiring connections
- 16–30 VAC or VDC operation
- LonMark[™] certified
- UL listed

LED. ive tag (RSPLY) 95%



Building Automation, Inc.



WIRING DIAGRAMS

LXRRM



L	1	
Ν	L	DC OK +V -V
Indi Risi	cor use only.	For use in a protected environment only.

SPECIFICATIONS

AC input voltage range	 120 VAC (100–240V), 50-60HZ
	 Line and Neutral Single Phase only
Output	• 24V; 0–1.5A
Tolerance:	• +/-1%
Efficiency	• 83%
DC adjustment range	 Rated output voltage: +/-10%
Overload protection	 105%—160% constant current limiting; auto-
Overvoltage protection	Rated output voltage: 115%-135%
Setup; rise; hold-up time	 100ms, 70ms, 100ms at full load and 132VAC
Withstand voltage	• I/P-0/P:3KVAC
Connection	• I/P: 2 poles
	 O/P: 4 poles screw DIN terminal
Operating environment	• -4°–122° F (-20°–50° C) @100% load
	• 140° F (60° C) @ 80% load
Certifications	• UL60950-1; TUV EN60950-1
EMC	• EN55022 class B; EN61,000-3-2,3; EN61,000-
Warranty	• 2 years

ORDERING INFORMATION

LXPWRSPLY LX Power Supply





LXPWRSPLY

LX Network Accessories LX Power Supply

KEY FEATURES

- Universal AC input 120 VAC (100–240V); line and neutral single phase only
- DIN rail mountable: TS35/7.5; TS35/15
- Protection: short circuit, overload, and overvoltage
- LED indicator for power on
- UL listed
- 2-year warranty

-recovery

-6-2; EN61,000-4-2,3,4,5,6,8,11; ENV50204; EN61204-3

APPLICATION

- The LXPWRSLPY Power Supply is used to provide 24 VAC power "FT" style LX Network devices. The maximum recommended number of devices for each power supply is 4 within a maximum wire distance of 50 feet. This device is DIN rail mounted.
- The LXPWRSLPY requires a 120 VAC hardwire connection.
- The LXPWRSLPY is also used to supply power to the LXRRM Repeater.
- All LX network segments require termination. The LXTERMINATOR provides network termination when LXLPM2 Link Power Modules are not in use.
- The LXENDM DIN Rail Enclosure is a convenient way to mount various DIN Rail mounting network devices such as LXLPM2 or LXDCIM.





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WIRING DIAGRAMS

NOTES





SPECIFICATIONS	
Network interface	Screw terminal connector
Operating environment	• 32–140° F (0–60° C)
	Relative humidity (non-condensing): 5%–95
Warranty	• 2 years

ORDERING INFORMATION



LXTERMINATOR LX Free Topology Bus Terminator

HUBBELL **Building Automation, Inc.**

LXTERMINATOR

LX Network Accessories LX Terminator

KEY FEATURES

- LX network segment terminator
- DIN Rail Mounting
- 2-year warranty

APPLICATION

• All LX network segments require termination. The LXTERMINATOR provides network termination when LXLPM2 Link Power Modules are not in use.









Dimensions NEMA 1 rated

• 12″ x 15″ x 4″
Provides a degree of protection for people ag
• Providos a dograd of protection for the anclos

ORDERING INFORMATION



NOTES

HUBBELL

LXENDM

LXENDM

LX Network Accessories LX Enclosure for **DIN Rail Modules**

KEY FEATURES

- NEMA 1 rated metal enclosure
- Screw-mount cover
- Includes 2 DIN rails

gainst contact with the enclosed devices Provides a degree of protection for the enclosed devices against falling dirt

APPLICATION

• The LXENDM DIN Rail Enclosure is a convenient way to mount various DIN Rail mounting network devices such as LXLPM2 or LXDCIM.



Building Automation, Inc.







Expected Relay Life10 million cycles minimum mechanicalGold FlashNoContact Ratings20 Amp Resistive @ 277 VAC20 Amp Ballast N/O @ 120/277 VAC10 Amp Ballast N/C @ 120/277 VAC10 Amp Tungsten @ 120 VACCoil Current45 mA @ 18 VAC30 mA @ 22 VDC42 mA @ 120 VACCoil Voltage InputLX924BR1: 24 VAC/DC, 120 VAC; 50-60HzCoil Voltage InputLX924BR2: 24 VAC/DC, 208-277 VACOperating environment-30° to 140°FDimensions2.3" x 3.2" x 1.8" with 0.5 " NPT nippleHousing RatingPilenum, NEMA 1Wires16 M Contage Input	One (1) SPST Continuous Duty Coil	# Relays & Contact Type
Gold Flash• NoContact Ratings• 20 Amp Resistive @ 277 VAC• 20 Amp Ballast N/O @ 120/277 VAC• 10 Amp Ballast N/C @ 120/277 VAC• 10 Amp Tungsten @ 120 VACCoil Current• 45 mA @ 18 VAC• 45 mA @ 18 VAC30 mA @ 22 VDC• 75 mA @ 24 VAC32 mA @ 24 VDC• 62 mA @ 120 VAC• 62 mA @ 208-277 VACCoil Voltage Input• LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz• LX924BR2: 24 VAC/DC, 208-277 VACOperating environment• -30° to 140°FDimensions• 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nippleHousing Rating• Plenum, NEMA 1Wires• 16″, 600V Rated	0 million cycles minimum mechanical	Expected Relay Life
Contact Ratings 20 Amp Resistive @ 277 VAC 20 Amp Ballast N/O @ 120/277 VAC 20 Amp Ballast N/O @ 120/277 VAC 10 Amp Ballast N/C @ 120/277 VAC 10 Amp Tungsten @ 120 VAC Coil Current 45 mA @ 18 VAC 30 mA @ 22 VDC 75 mA @ 24 VAC 32 mA @ 24 VDC 42 mA @ 120 VAC 60 VAC 10 Amp Tungsten @ 120 VAC 42 mA @ 24 VDC 61 VAC 92 mA @ 24 VAC 32 mA @ 24 VDC 62 mA @ 208-277 VAC 62 mA @ 208-277 VAC 62 mA @ 208-277 VAC Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC • Drop Out = 2.1 VAC / 3.8 VDC • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC • Pull In = 18 VAC / 22 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F • Dimensions • 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating • Plenum, NEMA 1 • Wires • 16″, 600V Rated	10	Gold Flash
 20 Amp Ballast N/O @ 120/277 VAC 10 Amp Ballast N/C @ 120/277 VAC 10 Amp Tungsten @ 120 VAC Coil Current 45 mA @ 18 VAC 30 mA @ 22 VDC 75 mA @ 24 VAC 32 mA @ 24 VDC 42 mA @ 120 VAC 42 mA @ 120 VAC 42 mA @ 208-277 VAC Coil Voltage Input LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz LX924BR2: 24 VAC/DC, 208-277 VAC; 50- Drop Out = 2.1 VAC / 3.8 VDC Pull In = 18 VAC / 22 VDC Operating environment -30° to 140°F Dimensions 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating Plenum, NEMA 1 Wires 16″, 600V Rated 	0 Amp Resistive @ 277 VAC	Contact Ratings
• 10 Amp Ballast N/C @ 120/277 VAC • 10 Amp Tungsten @ 120 VAC Coil Current • 45 mA @ 18 VAC 30 mA @ 22 VDC • 75 mA @ 24 VAC 32 mA @ 24 VDC • 42 mA @ 120 VAC 42 mA @ 30 VDC • 62 mA @ 208-277 VAC Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50- • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F Dimensions • 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16″, 600V Rated	20 Amp Ballast N/O @ 120/277 VAC	
• 10 Amp Tungsten @ 120 VAC Coil Current • 45 mA @ 18 VAC 30 mA @ 22 VDC • 75 mA @ 24 VAC 32 mA @ 24 VDC • 42 mA @ 120 VAC 42 mA @ 30 VDC • 62 mA @ 208-277 VAC Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50- • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F • Dimensions • 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16″, 600V Rated	0 Amp Ballast N/C @ 120/277 VAC	
Coil Current -45 mA @ 18 VAC 30 mA @ 22 VDC -75 mA @ 24 VAC 32 mA @ 24 VDC 42 mA @ 120 VAC 42 mA @ 30 VDC -42 mA @ 120 VAC 42 mA @ 30 VDC 62 mA @ 208-277 VAC Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50- Operating environment • -30° to 140°F • Pull In = 18 VAC / 22 VDC Operating environment • 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16″, 600V Rated	0 Amp Tungsten @ 120 VAC	
• 75 mA @ 24 VAC 32 mA @ 24 VDC • 42 mA @ 120 VAC 42 mA @ 30 VDC • 62 mA @ 208-277 VAC 62 mA @ 208-277 VAC Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50-60Hz • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F Dimensions • 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16″, 600V Rated	5 mA @ 18 VAC 30 mA @ 22 VDC	Coil Current
• 42 mA @ 120 VAC 42 mA @ 30 VDC • 62 mA @ 208-277 VAC • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50- • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC • Operating environment • -30° to 140°F • Dimensions • 2.3″ x 3.2″ x 1.8″ with 0.5 ″ NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16″, 600V Rated	'5 mA @ 24 VAC 32 mA @ 24 VDC	
• 62 mA @ 208-277 VAC Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50- • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F Dimensions • 2.3" x 3.2" x 1.8" with 0.5 " NPT nipple Housing Rating • Plenum, NEMA 1 Wires	42 mA @ 120 VAC 42 mA @ 30 VDC	
Coil Voltage Input • LX924BR1: 24 VAC/DC, 120 VAC; 50-60Hz • LX924BR2: 24 VAC/DC, 208-277 VAC; 50- • Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F Dimensions • 2.3" x 3.2" x 1.8" with 0.5" NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16", 600V Rated	52 mA @ 208-277 VAC	
LX924BR2: 24 VAC/DC, 208-277 VAC; 50- Drop Out = 2.1 VAC / 3.8 VDC Pull In = 18 VAC / 22 VDC Operating environment 30° to 140°F Dimensions	X924BR1: 24 VAC/DC, 120 VAC; 50-60Hz	Coil Voltage Input
• Drop Out = 2.1 VAC / 3.8 VDC • Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F Dimensions • 2.3" x 3.2" x 1.8" with 0.5 " NPT nipple Housing Rating • Plenum, NEMA 1 Wires	X924BR2: 24 VAC/DC, 208-277 VAC; 50-60Hz	
• Pull In = 18 VAC / 22 VDC Operating environment • -30° to 140°F Dimensions • 2.3" x 3.2" x 1.8" with 0.5 " NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16", 600V Rated	Drop Out = 2.1 VAC / 3.8 VDC	
Operating environment - 30° to 140°F Dimensions • 2.3" x 3.2" x 1.8" with 0.5 " NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16", 600V Rated	Pull In = 18 VAC / 22 VDC	
Dimensions • 2.3" x 3.2" x 1.8" with 0.5 " NPT nipple Housing Rating • Plenum, NEMA 1 Wires • 16", 600V Rated	30° to 140°F	Operating environment
Housing Rating • Plenum, NEMA 1 Wires • 16", 600V Rated	2.3" x 3.2" x 1.8" with 0.5 " NPT nipple	Dimensions
Wires • 16", 600V Rated	Plenum, NEMA 1	Housing Rating
	6", 600V Rated	Wires
Certifications • UL and cUL Listed, UL924, UL916, UL864	JL and cUL Listed, UL924, UL916, UL864,	Certifications
California State Fire Marshal, CE	alifornia State Fire Marshal, CE	
Warranty • 1 year	year	Warranty

ORDERING INFORMATION

	MO	DEL
LXUL924BR1	LX UL92 SPDT w	24 Enclosed Relay 20 Amp ith 24 VAC/DC/120 VAC Coil
LXUL924BR2	LX UL92 SPDT w VAC Coi	24 Enclosed Relay 20 Amp ith 24 VAC/DC/208-277 I



LXUL924

LX Series – Networked Lighting Controls UL 924 Enclosed 20 Amp SPDT Bypass Relays

KEY FEATURES

- 20 Amp 120/277 VAC SPDT Relay
- Available with either 24 VAC/DC/120 VAC Coil or 24 VAC/DC/208-277 VAC Coil
- LED status indicator
- N.O. isolated contacts
- UL and cUL listed
- One-year warranty

• 770 VA Pilot Duty @ 120 VAC

- 1110 VA Pilot Duty @ 277 VAC
- 2 HP @ 277 VAC
- 1 HP @ 120 VAC





Building Automation, Inc.





Each Kit Includes:	 2 ea - Wire Way Divider Plates
	 2 ea – Stainless Steel mounting Screws
	 Installation Instructions
Operating environment	 Indoor use only
Size & Weight	• Size: 4.25"W x 3.25"L
	• Weight: 3.0 oz
Color	 ANSI 61 Gray Polyester Powder Coat
Certifications	 For use with LX Series UL and cUL Listed LXIN
Warranty	• 2 years

ORDERING INFORMATION



lard Breaker Panel

LON Network Processor Board

Lighting Load A

You should not attempt to power than 4 devices (sensors or slave packs) from a single power pack

LXWRDV LX Network Accessories

Panel Wire Way Divider Accessory Kit

KEY FEATURES

- Provides physical code gauge steel separation between different voltages or sources that share the same relay panel
- Field installed
- Can be mounted at any location
- Fits between relates no loss of relay spaces
- For use with LX Series Lighting Control Panels (Except 4 relay LX panels)

I and LXEN network lighting control panels











Product Pictured is full scale (1:1).

ORDERING INFORMATION

Please include with your order for each individual switch station, the text for each button and if the button will have an LED light-pipe. We suggest a spreadsheet format for large orders.

Engraved buttons are a custom item and we recommend that you call your HBA customer service representative when ordering to ensure your required lettering and specifications can conform to the engraver's requirements.

The engraved buttons will not come pre-installed on the switch stations. At your request, the buttons can come in a large unsorted bag, or they can be packaged in small bags to accompany the switch station with which they were ordered.

Type Specification

- Font: Arial Narrow
- Size: 9 point
- Color: Charcoal Grey
- Durability: Permanent Laser Engraving
- Character Limit: 1 or 2 lines of text 10 characters including spaces per line for buttons with light pipe and 14 characters / line for buttons without light pipe



NOTES



CUSTOM ENGRAVED SWITCH STATION BUTTONS LX Series – Networked Lighting Controls

KEY FEATURES

LX Series Networked Switch Stations are available with custom laser-engraved button labeling. These are ideal for public areas, conference rooms and other locations where visitors or infrequent occupants may be unfamiliar with the lighting controls.







PRODUCT IMAGE		TC4	5
		TC Series - Lighting Control Panels TC4 Time Clock Contactor Replacement	
		 KEY FEATURES 4 switch inputs 4 single-pole 20A, NO, relays Internal time clock with auto DST option Astronomical clock Keypad programming 2-line LCD backlit display with prompts Holiday schedules Timed inputs Master override switch: On/Auto/Off UL listed 2-year warranty SYSTEM ACCESSORIES Windows Software Contact Input Photocell Telephone Interface Module Serial Modem 	
ENCLOSURE SPECIFICATIONS	NEMA 1; surface mount; lockable		
TC4	• 4 relays (integrated)		
	• 9.5″ x 14″ x 3.25″		
Relays	 20A 120/277 VAC, NO, rated contacts 	 Mechanical operations: 10 million 	
	Maximum wire size: 10 AWG		
Master override	On/Auto/Off switch		
Transformer	• 120VAC or 277VAC, 60HZ		
Power use	TC4 fully loaded panel - 20 watts		
Operating temperature	• 0°-50° C (32°-122° F)		
CONTROL PANEL SPECIFICATIONS	NS • Maximum of 4 relays • 2x16 32-character display with programming keypad • LED indicators for relay status and system operations • Master override switch: On/Auto/Off		
Inputs	 Programmable 4 dry contact, switch inputs Contact rating: 24 VDC @ 12 mA Momentary, Maintained, Alternate Action 		
Features	 Astronomical clock 64 time-of-day schedules 32 holiday groups Automatic daylight-savings-time adjustment OFF warning: 1–99 minutes Switch input timers: 1–999 minutes 	 Timed overrides: 1–999 minutes Prioritization of switch inputs and time-of-day schedules Local ON/OFF control of individual relays Memory backup One RS-232 port: RJ-11 connector for PC or modem 	
Programming	Keypad programming Optional PC programming with off-line editor		

ORDERING INFORMATION



NOTES

HUBBELL Building Automation, Inc.













PRODUCT IMAGE		TC8
		 TC Series - Lighting Control Panels TC8 Time Clock Contactor Replacement Beswitch inputs 8 single-pole 20A, NO, relays Internal time clock with auto DST option Astronomical clock Keypad programming 2-line LCD backlit display with prompts Holiday schedules Timed inputs Master override switch: On/Auto/Off UL listed Multi-tap transformer: 120/277 VAC 2-year warranty SPSTEM ACCESSORIES Windows Software Contact Input Photocell Telephone Interface Module Serial Modem
ENCLOSURE SPECIFICATIONS	NEMA 1; surface mount; lockable	
TC8	• 14" x 9.5" x 5"	
IC8D	• 14" X 9.5" X 9"	
Relays • 8 1-Pole 120/277 VAC, 20A, NO, Relays (TC881P120277) 0.1 Pole 2421/4C 20A, NO, Relays (TC881P120277) • 8 1-Pole 120/277 VAC, 20A, NO, Relays (TC881P120277)		
	• 8 1-POIE 347 VAC, 20A, NO, KEIdyS (TC8D8 IP347)	
Master override • On/Auto/Off switch		
Transformer • Multi-tapped, 120/277 VAC, 60Hz, internally fused		
Power use • TC8 fully loaded panel: 40watts		
Operating temperature	• 0°-50° C (32°-122° F)	
CONTROL PANEL SPECIFICATIONS	 Maximum of 8 relays LED indicators for relay status and system operations 	 2x16 32-character display with programming keypad Master override switch: On/Auto/Off
Inputs	 Programmable 8, dry-contact, switch inputs Contact rating: 24VDC @ 12 mA 	Momentary, Maintained, Alternate Action
Features	Astronomical clock 64 time-of-day schedules	 Timed overrides: 1–999 minutes Prioritization of switch inputs and time-of-day schedules
	• 32 holiday groups	Local ON/OFF control of individual relays
	 Automatic daylight-savings-time adjustment 	Memory backup

SPECIFICATIONS		 FC Series - Lighting Control Panels <i>IC8 Time Clock</i> <i>Contactor Replacement</i> <i>B single-pole 20A, NO, relays</i> <i>Internal time clock with auto DST option</i> <i>Astronomical clock</i> <i>Keypad programming</i> <i>2-line LCD backlit display with prompts</i> <i>Holiday schedules</i> <i>Timed inputs</i> <i>Master override switch: On/Auto/Off</i> <i>UL listed</i> <i>Multi-tap transformer: 120/277 VAC</i> <i>2-year warranty</i> SYSTEM ACCESSORIES <i>Vindows Software</i> <i>Contact Input Photocell</i> <i>Telephone Interface Module</i> <i>Serial Modem</i>
ENCLOSURE SPECIFICATIONS	NEMA 1; surface mount; lockable	
TC8	• 14″ x 9.5″ x 5″	
TC8D	• 14″ x 9.5″ x 9″	
Relays	• 8 1-Pole 120/277 VAC, 20A, NO, Relays (TC881P120277)	
	• 8 1-Pole 347 VAC, 20A, NO, Relays (TC8D81P347)	
	• 4 2-Pole 480 VAC, 20A, NO, Relays (TC8D42P480)	
Master override	On/Auto/Off switch	
Transformer	Multi-tapped, 120/277 VAC, 60Hz, internally fused	
Power use	TC8 fully loaded panel: 40watts	
Operating temperature	• 0°–50° C (32°–122° F)	
CONTROL PANEL SPECIFICATIONS		 2x16 32-character display with programming keypad Master override switch: On/Auto/Off
Inputs	Programmable 8, dry-contact, switch inputs Contact rating: 24VDC @ 12 mA	Momentary, Maintained, Alternate Action
Features	Astronomical clock	Timed overrides: 1–999 minutes
	64 time-of-day schedules	 Prioritization of switch inputs and time-of-day schedules
	• 32 holiday groups	 Local ON/OFF control of individual relays
	 Automatic daylight-savings-time adjustment 	Memory backup
	OFF warning: 1—99 minutes	One RS-232 port: RJ-11 connector for PC or modem
	Switch input timers: 1–999 minutes	
Programming	Keypad programming	

Optional PC programming with off-line editor

ORDERING INFORMATION

	MODEL
TC881P120277	8 1-Pole 120/277VAC 20 Amp, NO, Relays, 120/277V AC Input
TC8D81P347	8 1-Pole 347VAC 20 Amp Relays, Latching, 120/277V AC Input
TC8D42P480	4 2-Pole 480VAC 20 Amp Relays, NO, 120/277V AC Input





TC8



HUBBELL Building Automation, Inc.




OVERVIEW

The TC Series 2004 Baud Modem provides access to one lighting control panel from your computer. The modem works with the TC Series lighting control system and connects to the RS-232 port on the logic board. You can connect to the serial modem using any modem.

ORDERING INFORMATION



LK Contact Input Photocell TC-8 Panel Blue (+24vdc) Red (+24vdc Black ۰ C ON ® H +24 ® ¹ OFF 🛛 C ON ® H H+24 ፼ ² OFF ⊠ 0000 \square c ^{ON} ⊠ 1 2 3 A H +24 ⊠ 4 5 6 B ³ OFF 🛛 7 8 9 C LVSM1PLWH ON ® H +24 ₪ * 0 # D ⁴ OFF 🛛 ||C ^{ON} ⊠ H+24 ⊠ RY3 RY7 RY1 RY5 8 8 8 8 88 8 8 ⁵ OFF ⊠ 6 , on LVSM2PLWH H<u>+24</u> ⊠ لم _ ⁶ OFF 🛛 C ON ⊠ H +24 ⊠ ⁷ OFF ⊠ LVSM1PLWH H+24 ⊠ ___' ⁸ OFF 🛛 Light Fixture +24 VDC 8 8 88 8 8 8 8 DC GND Hot 0 RY2 RY4 RY6 RY8 LVSM2PLWH

TCMODEM TC Series - Lighting Control Panels Serial Modem

KEY FEATURES

• 2400 Baud Serial Modem



TCMODEM





Rear View of Modem



SPECIFICATIONS	
Electrical	120 VAC wall transformer included
	 Power consumption: 27W
Communications	• Direct RS-485: 19,200 Baud
	• Direct RS-232: 14,400 Baud
	Modem: Bell 103 and 212a compatible
	 Input: RS-232 serial connection; 25 pin
	Cable: RS-232 serial cable; 25–25 pin (supplie
	• Output: RS-485 and RS-232
	Network wire: Belden #9841
Dimensions	• 9.5″ x 7.25″ x 1.5″

ORDERING INFORMATION







TCTIM TC Series - Lighting Control Panels Telephone Interface Module



KEY FEATURES

- Voice-user prompts
- Touch-tone interface
- Connects to standard touch-tone phone system with a dedicated line
- Status-indicator lights
- Defaults to a modem if no touch-tones are received
- Bell 103 and 212A compatible

ied); 9–25 pin adapter (supplied)



TCTIM

The TIM IV can be connected at any point to the ControlKeeper TouchScreen Network. If not located at the beginning or the end, the termination jumpter must be removed. Network wiring is run from panel to panel. Star or T configurations are unacceptable.



SPECIFICATIONS

Sensing range	 10–200 foot-candles
Threshold level	 Potentiometer adjustment
Time delay	 Potentiometer adjustment
Output signal	 Maintained contact output

INSTALLATION

This system accessory will require mounting and wiring at the site.

ORDERING INFORMATION





TCPC TC Series - Lighting Control Panels TC Contact Input Photocell

KEY FEATURES

- Provides a signal that replicates a maintained switch
- Connects to switch inputs
- Operates within a range of 10–200 foot-candles
- Deadband feature with user-adjustable time delay
- Individual manual override





Hubbell Building Automation

TABLE OF CONTENTS

LightBat[™] G2 HID Dual Level Switching Controller and PIR Sensor. 79

HBA Wasp

High Bay Sensor Accessories

High Bay Occupancy Sensors and Controllers 83





Energy **Saving** Lighting Controls



Seventy7

hubbell-automation.com



PRODUCT IMAGE



SPECIFICATIONS

Lamp types controlled	 For use with CWA ballasts only
	Metal halide: 175W-1,650W
User interface	 4 dip switches and 1 self-diagnostic pushbutton
Timer timeouts	 2, 4, 8, 16, and 64 minutes timeouts
	 10-second test mode
Passive infrared (PIR)	 9.6 square inches of optical lens @ 2.15" focal length
Coverage	 4 interchangeable lens options
	- 3 aisle lenses for 12'—50' mounting heights
	- 1 area lens
Capacitor	 Series dim capacitor is mounted inside the LightBAT G2 m
	 Capacitor value is based on ballast manufacturer specification
Power requirements	 6' power cord with MyzerPORT[™] plug
Operating environment	 Indoor use only
	• -4°F–149°F (-20°C–65°C)
Construction	 Casing—rugged, high-impact, injection-molded plastic
Size and weight	• 13.25" x 5.5" x 2.6"
	 Less than 3lbs (without dim capacitor installed)
Color	• Blue
Mounting	 ¾" threaded-pipe mounting adapter with security screw
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



LightBAT[™]G2

HID Dual Level Switching Controller and PIR Sensor

KEY FEATURES

- Integrated HID control module and passive infrared (PIR) occupancy sensor
- Supports 175W–1,650W CWA (Constant Wattage Auto-Transformer) ballasts
- Guaranteed lamp warm-up intelligence
- Continuous lamp monitoring
- Zero Arc Point Switching
- MyzerPORT[™] for quick and easy installations
- Short cycle fixture dimming
- Interchangeable PIR lens options
- UL and cUL listed
- 5-year warranty

• Pulse start metal halide: 175W-1,000W

• High pressure sodium: 250W-1,000W utton cal length LightBAT G2 module cturer specifications nolded plastic led)

LENS SELECTION LB-Lens 15 Color: Black, Maximum Mounting Height - 25' LB-Lens 10 Color: Charcoal, Maximum Mounting Height - 35' LB-Lens 07 Color: Clear, Maximum Mounting Height - 60' LB-Lens 0806 Color: Lt. Grey, Maximum Mounting Height - 35'

Seventy9











LB-Lens 10 Aisle Lens • Charcoal Maximum Mounting Height - 35'



LB-Lens 07 Aisle Lens • Clear Maximum Mounting Height - 60'



LB-Lens 0806 Area Lens • Light Grey Maximum Mounting Height - 35'

HUBBELL









RANGE DIAGRAM



CD	ECI	ATI	ON	C
		A I I		

SPECIFICATIONS		
User interface	 2 four-pin dip switches (standard version) 	 3 four-pin dip switches (photosensor version)
Timer timeouts	Primary:	Secondary:
	- 8-second test mode	- Can be disabled
	- 4, 8, 16, and 30 minute timeouts	- 30, 60, and 90 minute timeouts
Passive infrared	Dual element pyrometer and spherical Fresnel lens designed for robust detect	tion of a walking person.*
Photosensor Range	• 50-3000FC	
(Photosensor version only)		
Coverage	 360° (includes masking kit for aisle and end-of-aisle applications) 	• Lens: 1.4:1 coverage up to 30ft., 1.1:1 coverage up to 45ft.
Load ratings (line voltage units)	120VAC: 0–800W ballast or tungsten	 208/240VAC: 0-1,200W ballast
	• 277VAC: 0-1,200W ballast	• 480VAC: 0-2,400W ballast
	• 347VAC: 0-1,500W ballast	• ¼-HP motor load @ 120V, 1/6-HP@347V
Power requirements	• Line voltage units: 120/277/347V, 208/240V, 480V, 60 Hz	
Operating environment	Indoor use only	• Operating temperature (standard version): 32°-149°F (0°-65°C)
	Operating temperature (low temperature version): -40°-149°F (-40°-64	5°C) • Relative humidity (non-condensing): 0%–95%
Construction	Casing—high-impact injection-molded plastic	
Size and weight	• Size: 4.4″L x 3.6″W x 2.0″D; Weight: 7 oz.	
Mounting	• Mounts directly to the end of a fixture through an extended $\frac{1}{2}$ chase nipple	
	 For deeper body fixtures, an optional Extender Adapter 	
	(available separately) positions the sensor flush or below the bottom of th	he reflector for a full field of view.
Certifications	Conforms to UL STD 916, Certified to CAN/USA STD 22.2 No. 61010-1-04	
Warranty	• 5 years	
	*When used with meaning start ballast a 1 2 so	a could delay from a course and detection to large turn, on may be even wien and

ORDERING INFORMATION



HBADAPTOR	HBA Wasp Fluorescent High Bay Mounting Extension Adapto
HBMASKKIT	HBA Wasp Fluorescent High Bay Sensor Masking Kit - 10 pac

¹Low Voltage option available only with 24V input voltage. UVPP or MP Series Power Pack required. ²2 Output option available only with UNV input voltage.

HBA WASP[™]

High Bay Occupancy Sensors and Controllers Fluorescent High Bay Occupancy Sensor



KEY FEATURES

- Digital passive infrared (PIR) sensor
- Low-profile design
- Multiple (single and dual) output versions
- Unique Smart Cycling[™] for improved lamp life
- Single and dual timer operation
- Zero Arc Point Switching
- Supports mounting heights up to 45 ft.
- Photosensor version available for daylight harvesting
- Low-voltage and line-voltage (120/277/347VAC, 208/240VAC, 480VAC) versions available
- Low-temperature (-40°C) versions available
- Certified to UL916 standards
- 5-year warranty

*When used with program start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.







HUBBELL





1. Wasp sensor is to be applied one per fixture.



MYzerPORT

MPBP10

ORDERING INFORMATION



*Note: Special order requirements - Custom built to match HID ballast specifications.

PRODUCT IMAGES

LB Laser Alignment Tool

LBLAT1

MYzerPORT Connector

MPC2P10

High Bay Sensor Accessories

High Bay Occupancy Sensors and Controllers

KEY FEATURES

LBLAT1 – LightBAT Laser Alignment Tool

The laser alignment tool provides a visual indicator of the LightBAT G2's lens direction.

MPBP10 – MYzerPORT[™] Bypass Shorting Plug

The MYzerPORT Bypass Shorting Plug is a 2-pin plug used to bypass sensor control. Available in packs of 10.

MPC2P10 – MYzerPORT Connector

The MYzerPORT connector mounts directly to the HID fixture. Available in packs of 10.

LBKIT1 – LightBAT MYzerPORT Kit

Conversion hardware kit for non-MYzerPORT HID fixtures.

FHBADAPTOR – HBA Wasp Fluorescent

High Bay Mounting Extension Adaptor Extension adaptor used for positioning the HBA Wasp sensor flush or below the bottom of the fixture's reflector for full field of view coverage.

FHBMASKKIT – HBA Wasp Fluorescent High Bay Masking Kit

Aisle and End-of-Aisle lens masks used with the HBA Wasp sensor. Available in packs of 10 pairs.





Hubbell Building Automation



TABLE OF CONTENTS

LUXSTATDCM	
Luxstat Dimming Control Module	87

LUXSTATOCM

LUXSTATPP

LUXSTATOCM1Z

Luxstat Single Zone ON/OFF Control Module 93



HUBBELL Building Automation, Inc.

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Energy **Saving** Lighting Controls

LUXSTATDNCM Luxstat Day/Night Control Module with Clock 95
LUXSTATLS Luxstat Light Sensor
LUXSTATSW Low Voltage Wall Switch for Luxstat
DLC7 Continuous Dimming Control 101
DLCPCI/DLCPCO DLCPCA/DLCPCS Photocell Sensors
DLCPCC Photocell Controller 105



hubbell-automation.com



PRODUCT IMAGE



SPECIFICATIONS

Electrical	• Class 2
Supply voltage	 LUXSTATPP Power Pack: 24 VDC
Operation	 Control output voltage to ballasts: 0–10 VDC
Programmable features	 Minimum output setting: 0–4 VDC
	 Maximum output setting: 6–10 VDC
	 Fade and ramp rate: 5–60 seconds
	 Cut off delay: 0–20 minutes or infinity
	 Maximum sink: 50mA per channel
	 Maximum source: 3mA per channel
	 Maximum ballasts: 50 per channel
Certifications	UL, and cUL listed
Warranty	• 2 years

ORDERING INFORMATION



LUXSTATDCM

Daylight Harvesting Controls Luxstat Dimming Control Module

KEY FEATURES

- Open Loop Continuous Dimming Daylight Harvesting Control
- Pushbutton programming
- Automated setup
- LCD display provides Real Time light level readings
- 5 pre-programmed applications Fits most applications without complicated setup
- Continuous Dimming control Chose from 1, 2 or 3 zones
- Individual adjustment for each channel of control
- Compatible with any 0-10 volt controllable ballast
- Integration with occupancy sensors and manual override controls
- DIN rail mounting
- California Title 24 compliant
- UL & cUL Listed
- 2-Year Warranty











PRODUCT IMAGE



SPECIFICATIONS Electrical Class 2 low-voltage device Supply voltage • LUXSTATPP Power Pack: 24VDC Programmable features Photocell range: 3–6000 foot-candles • Set point range: 5–60 foot-candles Programmable deadband: 10%–80% • Adjustable ON delay: 5–60 seconds • Adjustable OFF delay: 3–60 minutes • Load shed set point: 5–60 foot-candles • 3.5" x 2.81" x 2.5" (98mm x 71mm x 64mm) Dimensions

ORDERING INFORMATION

	MODEL
LUXSTATOCM	Luxstat ON/OFF Control Module, 3 zones, 24V DC

LUXSTATOCM

Daylight Harvesting Controls Luxstat ON/OFF Control Module

KEY FEATURES

- Open Loop ON/OFF daylight harvesting control
- Pushbutton programming with automated setup
- LCD display provides "Real Time" light level readings
- 5 pre-programmed applications—fit most applications without complicated setup
- Multilevel switching—choose from 1, 2, or 3 zones
- Individual adjustment for each channel of control
- Adjustable ON and OFF delays
- Integration with occupancy sensors and manual override controls
- DIN rail mounting
- Title 24 compliant
- UL and cUL listed
- 2-Year warranty











SPECIFICATIONS

Voltage	 120/277 VAC, 50/60 Hz—single phase
Secondary power	• 1,000 mA @ 24 VDC
Relays	• 3 normally open relays (620 VA @ 120 or 27
Dimensions	• 2.76" x 3.57" x 2.36" (70mm x 90.5mm x 60.
Certifications	UL and cUL listed
Warranty	• 2-year warranty

ORDERING INFORMATION



LUXSTATPP Daylight Harvesting Controls Luxstat Power Pack

KEY FEATURES

- Provide power to operate Luxstat daylight harvesting control modules
- 3 individually controlled relays for ON/OFF control
- 120/230/277 VAC transformer
- Quick connect to Luxstat daylight harvesting control modules
- DIN rail mount
- Built-in protection against overload
- Title 24 compliant
- UL and cUL listed
- 2-year warranty

7 VAC) .0mm)









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Electrical (Input)	 LUXSTATOCM1Z120: 120V
	 LUXSTATOCM1Z277: 277V
	• Max Load: 40mA
Electrical (Output)	Relay Contact: NO, m10A
	• Load:
	- Incandescent Lamps - 1200W
	- Fluorescent - 620VA
	- Halogen Incandescent - 500W
	Secondary Voltage: 24VDC
Programmable Features	• FC Range:
	- 0.3-30 FC
	- 3-300 FC
	- 30-3000 FC
	OFF delay: 0-60 Minutes
Dimensions	• 3.5" x 2.81" x 2.5" (98mm x 71mm x 64mm)
Operating Environment	 Operating Temperature 41°F - 122°F (+5°C -
Mounting	• DIN Rail
Accessories	 Indoor Light Sensor - LUXSTATLS
	 Outdoor Light Sensor - LUXSTATLSO
	LUXSTAT 1-Button Momentary Switch - LUXS
Certifications	• UL Listed
Warranty	• 2 years

ORDERING INFORMATION

PRODUCT IMAGE

SPECIFICATIONS



HUBBELL

LUXSTATOCM1Z Daylight Harvesting Controls Luxstat Single Zone ON/OFF Control Module

KEY FEATURES

- Open Loop ON/OFF Daylight Harvesting control
- Pushbutton programming
- LCD display provides Real Time light level readings
- 3 to 3000 FC Range
- Single-zone switching
- Adjustable OFF delay
- Integration with occupancy sensors and manual override controls
- DIN rail mounting
- California Title 24 compliant
- UL Listed
- 2-Year Warranty
- Power Consumption: Approximately 2W
- Signal from Light Sensor: 0-10V

•	Setting Range
-	0.3-27 FC
-	3-270 FC
_	30-2700 FC

) LxWxD +50°C)

(STATSW1WH or LUXSTATSW1IV





LUXSTATOCM1Z

LUXSTATDNCM

Daylight Harvesting Controls Luxstat Day/Night Control Module with Clock

KEY FEATURES

- Open Loop ON/OFF daylight harvesting control
- Integrated clock for night blocking
- Pushbutton programming
- DIN rail mounting
- UL Listed
- 2-Year Warranty

 Power Consumption: Approximately 2W Signal from Light Sensor: 0-10V

• Tolerance of Fc range: +-10% • Backup for clock: > 2 hours, when the unit has been connected at least 5 minutes

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SPECIFICATIONS	
Electrical	Three jumper-selectable foot candle ranges:
	 Low-voltage Class 2 device
	 Protective hard-plastic cover
	 3-conductor 22 AWG twisted cable—equal t
	Maximum wire length: 250 feet (76.2m)
Dimension	• 2" diameter x 1.2" height (50.8 diameter x 30
Certifications	 UL and cUL listed
Warranty	• 2-year warranty

ORDERING INFORMATION





LUXSTATLS Daylight Harvesting Controls Luxstat Light Sensor

KEY FEATURES

- Open Loop photosensor
- Foot-candle range: 3–6000 fc
- Provides daylight levels to Luxstat daylight harvesting control modules
- Indoor and outdoor versions
- Mounts vertically and horizontally
- Architecturally attractive design
- UL and cUL listed
- Title 24 compliant
- 2-Year warranty

: 3–300fc; 30–3000fc; 60–6000fc

to Belden 8443

0.5mm height)













LUXSTATSW4





LUXSTATSW2DIM

LUXSTATSW1



SPECIFICATIONS

lectrical Ratings	• Each switch: 100mA @ 30VDC Max
	• Each pilot LED: 18-30VDC, internal 2.2kohm, ½ Watt resistor
)perating environment	Indoor use only
	 Operating temperature: 32° – 122°F (0° - 50°C)
	Relative humidity (non-condensing): 10%-90%
onstruction	• Housing – Rugged, high impact, injection molded plastic
	Color-coded leads
iize & Weight	• Size: 4.87" dia., 2.44" deep (123.7 mm dia., 62mm deep)
	• Weight: 3.0 oz
olor	• White, Ivory
Nounting	Single-gang NEMA-style switch box (standard switch box)
	 Decorator-style wall plate not included
Varranty	• 2 years

ORDERING INFORMATION



HUBBELL

LUXSTATSW

for Luxstat

Daylight Harvesting Controls Low Voltage Wall Switch

KEY FEATURES

Manual ON/OFF control

• 2-year warranty

• Attractive, architecturally pleasing design

• Multiple button configurations available

Low voltage operation; Class 2 device

• Mounts to standard single-gang box

LUXSTATSW2AUTO





The LUXSTATSW4 4-Button Switch is pre-wired.

Connect the LUXSTATSW4 to the LUXSTATDCM Dimming Controller as follows:

LUXSTATSW4 Wire	LUXSTATDCM Terminal
BLACK / WHITE	B2
BLUE / WHITE	B3
YELLOW / WHITE	B4
RED	B5
BLACK	B6
BLUE	B7
GREY	B8

Connect the LUXSTATSW4 to the LUXSTATOCM ON/OFF Controller as follows:

LUXSTATSW4 Wire	LUXSTATOCM Terminal
BLACK / WHITE	B2
BLUE / WHITE	B3
YELLOW / WHITE	B4
RED	NOT USED
BLACK	NOT USED
BLUE	B7
GREY	B8



Accuracy	• +/-1% @ 70° F (21° C);
	 Derated to +/-5% when above 120° F or below
Supported ballasts	Capable of controlling up to 80 Advance Mar
Operating environment	 -13°F to +140° F (-11°C–60° C)
Sensitivity ranges	0-500 foot-candles
Adjustment range	 7–140 foot-candles
Input voltage	 10 VDC (9 supplied by ballast)
Output voltage	• 1VDC (light)-10 VDC (dark)
Wire leads	• 22 gauge
	- Gray and violet to the Advance ballast
	- Blue and black for remote calibration dial
	- White-green 2-wire loop cut for 3-second de
Sensor type	 Blue enhanced photodiode
Size	Base diameter: 2.00"
	Sensor diameter: 1.29"
	Height: 1.23"
Mounting	Mounting hole: 3/8"
	Mounting medium: 3M [™] double adhesive tap
Construction	Sensor housing meets flame-retardant requi
Warranty	• 2 years

ORDERING INFORMATION



NOTES

DLC7 Daylighting Controls Continuous Dimming Control



KEY FEATURES

- Controls 2-wire 0–10V dimming ballasts
- Light-sensitivity range of 0–500 foot-candles
- Selectable 3- or 8-second dimming rate
- Multiple calibration options
- Low-profile design
- 2-year warranty

ow 50° F (18°–49° C) k VII ballasts,

elay. Leave intact for 8-second delay to ballast

irements of UL standard 94HB







SPECIFICATIONS

Accuracy	• +/-1% at 7	0°F (21°C Derated to	+/-5% at 120
Operating Temperature	• 13°F to 140	°F (-11°C to 60°C)	
Sensor Type	 Blue-enhan 	ced photo diode	
Sensor Ranges	 Housing Min 	nimum Adjustable N	laximum
	DLCPCI	Indoor	5-750FC
	DLCPCO	Outdoor	5-750FC
	DLCPCA	Atrium	200-2,5
	DLCPCS	Skylight	1,000-7
Input Voltage	• 24 VDC		
Output Voltage	• 10 VDC full	output	
Output Offset	• 0VDC or 1 V	DC - total darkness	
Wiring	 Three condu 	ictors 18gauge stand	lard cable
	Red: Pos. DC i	input	
	Black: DC con	nmon	
	Yellow: Outp	ut to EMS	
Warranty	 2 years 		

ORDERING INFORMATION



DLCPCS Skylight Photocell Sensor, 1000FC - 7500FC

NOTES	



DLCPCI / DLCPCO DLCPCA / DLCPCS Daylighting Controls Daylighting Control Photocell Sensors

KEY FEATURES

- Multiple sensor options available
- Interfaces with Energy Management Systems
- 2-year warranty

Note: Requires DLCPCC Controller.

20°F or at) F (-18°C to 49°C)

500FC ,500FC





DLCPCI / DLCPCO / DLCPCA / DLCPCS





SPECIFICATIONS

Accuracy	 +/- I percent at /0°F (21°C) Derated +/- 5 p
Sensor Type	CD S Photoconductive 2 wire
Power Requirements	 24 VAC or 24 VDC standard
Dead Band	Adjustable: 5-95%
Indicators	Red High and Low LEDs
Input Delay	Standard 30-second sensor (removable for a
Control Inputs	 Photoconductive Sensor Calibration / Simula
	(for optional DLCSIMM)
Output	 Standard form C SPDT relay 10A resistive
Operating environment	 Operating Temp: -13°F to 140°F (-11°C to 60°
	 Indoor use only
Construction	 Sensor is mounted on a wall switch faceplate
Size & Weight	• 4.75" height x 2.5" width x 1.5"depth
Color	• White
Warranty	• 2 years

ORDERING INFORMATION



Ground Lighting Load Neutral-Hot Power Pack contacts Override Switch (optional) rated for 20 Amps. Red (+24VDC) Black (common) Black Blue (control) Blue UVPP Power Pack Supplies 150mA each N.O. N.C. Hubbell Building Automation Low Voltage Sensors(devices) Requires 33mA each OLow Setpoints DLC-PCC Controller OHigh **00000** 1 2 3 4 5 DLC-PC-x Photo Sensor Yellov Black (3-wire) Red

NOTES:

1. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

2. When using 3-wire sensor, operation of DLC-PCC is reversed from labeling on unit. Use N.C. connection and setpoints as shown



DLCPCC Daylighting Controls Photocell Controller

KEY FEATURES

- Adjustable on/off set points
- Dual power unit input: 24 VAC or 24 VDC
- Flexible control options
- Input time delay
- Two set points available for separate on and off levels
- Two-year warranty

percent above 120°F or below 0°F (49°F / -18°C)

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NOTES:

1. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

2. When using 3-wire sensor, operation of DLC-PCC is reversed from labeling on unit. Use N.C. connection and setpoints as shown.

Hubbell Building Automation Low Voltage Sensors (devices) **Requires** 33mA each

HUBBELL

Hubbell Building Automation

TABLE OF CONTENTS

LightHAWK™LHMTS	109
LightHAWK™LHMTD	
LightHAWK™LHUSS	
LightHAWK™LHUSD	
LightHAWK™LHIRS	
LightHAWK™LHIRD	
RWSOSCFL	121
RWSVSCFL	123
RWSOSINC	125
RWSVSINC	127
IWSZP3P	129
IWSZPM	131
TD200	133
LVS	135





Energy **Saving** Lighting Controls

OMNIDT/OMNIDTRP 137
OMNIUS/OMNIUSRP 139
OMNIIR/OMNIIRP 141
OMNIDIA/OMNIDIARP 143
PIR1000H 145
CUI5002000P 147
C5002000P 149
C8001500P 151
PIR10 153
LightOWL™LODT/LODTRP 155
LightOWL [™] LOIRWV/LOIRWVRP
LightOWL™LOIRHB/LOIRHBRP
LightOWL™LODIA/LODIARP
Occupancy Sensor Accessories
UVPP 165
UVPPM 167
MP347 / MPSA 169
Quick to Install System
RRU 173
RR1SPDTC 175

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PRODUCT IMAGE



RANGE DIAGRAM



IR Motion

SPECIFICATIONS

IntelliDAPT technology	 Self-adjusting timer
57	• Self-adjusting ultrasonic (US) and passive int
Timer timeout	Auto mode: 4–30 minutes; self-adjusts base
	• Fixed mode: 4, 8, 15, and 30 minutes
Ultrasonic (US) output	• 40kHz output
Passive infrared (PIR)	Dual-element pyrometer and 12-element cy
Photocell	Natural light override range: 10–500 foot-ca
Coverage	• 1,000 square-foot, 180° coverage area
Power requirements	• 120/277 VAC; 50/60Hz
Electrical ratings	 120 VAC: 800W Incandescent; 1,000W Fluore
Load requirements	• None
Operating environment	Indoor use only
	 Operating temperature: 32°-104°F (0°-40°C
Construction	Casing—high-impact injection-molded plas
	Impact-resistant lens
Size and weight	• Size: 4.2" x 1.8" x 2.1"; .37" extension
Color	White; Ivory; Light Almond; Gray; Black
Mounting	Single-gang NEMA-style switch box (average
Certifications	ETL, UL, and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



LHMTS

LightHawk™ Multi-Technology Wall Switch Sensor featuring IntelliDAPT®

KEY FEATURES

- All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor
- IntelliDAPT self-adaptive technology—no manual adjustment required
- Auto-on and manual-on operating modes (depending on model)
- 1,000 square-foot, 180° coverage area
- Built-in photocell with SuperSaver[™] mode
- RhinoTuff[™] lens
- Dual 120/277 VAC operation
- No minimum load requirement
- Zero Arc Point Switching
- ETL, UL, and cUL listed
- 5-year warranty

🔝 US Major Motion US Minor Motion

> Automatic false-on/false-off corrections frared (PIR) sensitivity No manual adjustments required Test mode: 5 seconds ed on occupancy lindrical RhinoTuff lens

andles • 277 VAC: 1,800W Fluorescent; 1/6 HP escent; 1/6 HP • Relative humidity (non-condensing): 0–95% stic (UL-94-5V) Color-coded leads are 6" long • Weight: 2.9 oz e switch box) Decorator-style wall plate not included

Ground

Neutral Hot

Lighting Load A ö



ö



1. Sensor is shipped with all dip switches in the OFF position (Factory Default)

2. Our product is powered by less than 500 microamps of leakage to ground current. The sensor must be grounded to function.



PRODUCT IMAGE



PRODUCT DIMENSIONS



SPECIFICATIONS

Timer timeout	Auto mode: 4–30 minutes (self-adjusts base
	Fixed mode: 4, 8, 15, and 30 minutes
Ultrasonic (US) output	• 40kHz output
Passive infrared (PIR)	Dual-element pyrometer and 12-element cy
Photocell	Natural light override range: 10–500 foot-ca
Coverage	 1,000 square-foot, 1800 coverage area
Power requirements	• 120/277 VAC, 50/60Hz
Electrical ratings	120VAC: 800W Incandescent; 1,000W Fluore
	• 277VAC: 1,800W Fluorescent; 1/6 HP
Load requirements	• None
Operating environment	 Indoor use only
	• Operating temperature: 32°-104°F (0°-40°
Construction	Casing—high-impact injection-molded pla
	 Impact-resistant lens
Size and weight	• Size: 4.2" x 1.8" x 2.1"; .37" extension
	• Weight: 2.9 oz
Color	 White; Ivory; Light Almond; Gray; Black
Mounting	Single-gang NEMA-style switch box (averag
	 Decorator-style wall plate not included
Certifications	• ETL, UL, and cUL listed
Warranty	• 5 years

ORDERING INFORMATION





LHMTD

Multi-technology Dual Circuit Wall Switch Sensor featuring IntelliDAPT®

KEY FEATURES • All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor • IntelliDAPT self-adaptive technology—no manual adjustment required • 2 relays for either two-level switching or dual-circuit control Auto-on and manual-on operating modes (depending on model) • 1,000 square-foot, 180° coverage area (major motion) • Built-in photocell with SuperSaver[™] mode RhinoTuff[™] lens • Dual 120/277 VAC operation • No minimum load requirement • Zero Arc Point Switching • ETL, UL, and cUL listed • 5-year warranty ed on occupancy) Test mode: 5 seconds lindrical RhinoTuff lens andles escent; 1/6 HP • Relative humidity (non-condensing): 0–95% astic (UL-94-5V) Color-coded leads are 6" long ge switch box) D NO. OF BUTTONS BUTTONS CONTRO D Dual Circuit W White 2 0 l Ivory A Light Almond G Gray B Black HUBBELL









PRODUCT IMAGE





 No minimum load requirement Zero Arc Point Switching ETL, UL, and cUL listed 5-year warranty
atic false-on/false-off corrections nual adjustments required
de: 5 seconds
e humidity (non-condensing): 0–95%
F BUTTONS BUTTONS
0



Wall Switch Occupancy Sensors LightHawk™ Ultrasonic Wall Switch Sensor featuring IntelliDAPT®

OneHundred13







21 . 29'

IntelliDAPT technology	Self-adjusting timer
intellibri i technology	Solf adjusting ultraconic (IIC) consitivity
T	Self-adjusting ultrasonic (05) sensitivity
limer timeout	• Auto mode: 4–30 minutes; self-adjusts base
	 Fixed mode: 4, 8, 15, and 30 minutes
Ultrasonic (US) output	• 40kHz output
Photocell	 Natural light override range: 10–500 foot-ca
Coverage	 400 square-foot, 180° coverage area
Power requirements	• 120/277 VAC; 50/60Hz
Electrical ratings	 120VAC: 800W Incandescent; 1,000W Fluore
	 277VAC: 1,800W Fluorescent; 1/6 HP
Load requirements	• None
Operating environment	 Indoor use only
	 Operating temperature: 32°-104° F (0°-40°
	 Relative humidity (non-condensing): 0–959
Construction	 Casing—high-impact injection-molded pla
	 Color-coded leads are 6" long
Size and weight	• Size: 4.2" x 1.8" x 2.1"; .37" extension
	• Weight: 2.9 oz
Color	White; Ivory; Light Almond; Gray; Black
Mounting	Single-gang NEMA-style switch box (averag
	 Decorator-style wall plate not included
Certifications	• ETL, UL, and cUL listed
Warranty	• 5 years
·	•

ORDERING INFORMATION





LHUSD

LHUSD

Wall Switch Occupancy Sensors LightHawk™ Ultrasonic Dual Circuit Wall Switch Sensor featuring IntelliDAPT®

KEY FEATURES • All-digital ultrasonic (US) sensor IntelliDAPT self-adaptive technology—no manual adjustment required • 2 relays for two-level switching or dual-circuit control • Auto-on and manual-on operating modes (depending on model) • 400 square-foot, 180° coverage area • Built-in photocell with SuperSaver[™] mode • Dual 120/277 VAC operation • No minimum load requirement • Zero Arc Point Switching • ETL, UL, and cUL listed • 5-year warranty US Major Motion US Minor Motion Automatic false-on/false-off corrections No manual adjustments required • Test mode: 5 seconds ed on occupancy candles escent; 1/6 HP °C) astic (UL-94-5V) ge switch box) D NO. OF BUTTONS CONTRO BUTTONS D Dual Circuit W White 2 0 l Ivory A Light Almond G Gray B Black

HUBBELL **Building Automation, Inc.** **LHUSD**





Button 1

Button 2

ψÙ

9



Ground Lighting Load A Hot ő Lighting Load B Viole 0 ő Notes: 1. If only controlling 1 load, use Black, Red, and Green wires Button ' 2. Black and Red wires operate through Button 1 Button 2 3. Blue and Violet wires operate through Button 2 8



OFF position (Factory Default)

PRODUCT IMAGE



SPECIFICATIONS IntelliDAPT technology Self-adjusting timer Self-adjusting passive infrared (PIR) sensitivi Timer timeout Auto mode: 4–30 minutes (self-adjusts base • Fixed mode: 4, 8, 15, and 30 minutes Passive infrared (PIR) Dual-element pyrometer and 12-element cyl Natural light override range: 10–500 foot-ca Photocell Coverage • 1,000 square-foot, 180° coverage area • 120/277 VAC; 50/60Hz Power requirements • 120 VAC: 800W Incandescent; 1,000W Fluores Electrical ratings • 277 VAC: 1,800W Fluorescent; 1/6 HP Load requirements None **Operating environment** Indoor use only • Operating temperature: 32°-104° F (0°-40° Construction • Casing—high-impact injection-molded plas Impact-resistant lens Color-coded leads are 6" long Size and weight • Size: 4.2" x 1.8" x 2.1"; .37" extension Color • White; Ivory; Light Almond; Gray; Black Single-gang NEMA-style switch box (average Mounting • ETL, UL, and cUL Listed Certifications Warranty 5 years

ORDERING INFORMATION



LHIRS

Wall Switch Occupancy Sensors LightHawk[™] Passive Infrared Wall Switch Sensor featuring IntelliDAPT®

KEY FEATURES

- All-digital passive infrared (PIR) sensor
- IntelliDAPT self-adaptive technology—no manual adjustment required
- Auto-on and manual-on operating modes (depending on model)
- 1,000 square-foot, 180° coverage area
- Built-in photocell with SuperSaver[™] mode
- RhinoTuff[™] lens
- Dual 120/277 VAC operation
- No minimum load requirement
- Zero Arc Point Switching
- ETL, UL, and cUL listed
- 5-year warranty

• Automatic false-on/false-off corrections

IR Motion

		concetions
ity	 No manual adjustments requ 	ired
ed on occupancy)	 Test mode: 5 seconds 	
lindrical RhinoTuff lens		
andles		
escent; 1/6 HP		
	 Relative humidity (non-cond 	lensing): 0%–95%
, C)		
stic (UL-94-5V)		
	 Weight: 2.9 oz 	
e switch box)	Decorator-style wall plate no	ot included
S		
CONTROL	NO. OF BUTTONS	BUTTONS
5 Single Circuit	1	W White
	0	l Ivory
		A Light
		Almond
		G Gray
		B Black
		Ruilding Automation Inc.
: hubbell-automation o	om	

OneHundred17







PRODUCT IMAGE



RANGE DIAGRAM



IR Motion

SPECIFICATIONS

IntelliDAPT technology	 Self-adjusting timer
	 Self-adjusting passive infrared (PIR) sensitivity
Timer timeout	Auto mode: 4–30 minutes; self-adjusts base
	 Fixed mode: 4, 8, 15, and 30 minutes
Passive infrared (PIR)	 Dual-element pyrometer and 12-element cy
Photocell	 Natural light override range: 10–500 foot-ca
Coverage	 1,000 square-foot, 180° coverage area
Power requirements	• 120/277 VAC; 50/60Hz
Electrical ratings	 120VAC: 800W Incandescent; 1,000W Fluore
	 277VAC: 1,800W Fluorescent; 1/6 HP
Load requirements	• None
Operating environment	 Indoor use only
	 Operating temperature: 32°-104° F (0°-40°
Construction	 Casing—high-impact injection-molded plas
	 Impact-resistant lens
Size and weight	 Size: 4.2" x 1.8" x 2.1"; .37" extension
	• Weight: 2.9 oz
Color	 White; Ivory; Light Almond; Gray; Black
Mounting	Single-gang NEMA-style switch box (average
	 Decorator-style wall plate not included
Certifications	 ETL, UL, and cUL listed

ORDERING INFORMATION





LHIRD

Wall Switch Occupancy Sensors LightHawk™ Passive Infrared Dual Circuit Wall Switch Sensor featuring IntelliDAPT®

• All-digital passive infrared (PIR) sensor

IntelliDAPT self-adaptive technology—no manual

• 2 relays for either two-level switching or dual-circuit

• Auto-on and manual-on operating modes (depending

KEY FEATURES

adjustment required

control

on model)

• 1,000 square-foot, 180° coverage area • Built-in photocell with SuperSaver[™] mode RhinoTuff[™] lens • Dual 120/277 VAC operation • No minimum load requirement • Zero Arc Point Switching • ETL, UL, and cUL listed • 5-year warranty Automatic false-on/false-off corrections Automatic false-on/false-off corrections ity ed on occupancy Test mode: 5 seconds /lindrical RhinoTuff lens andles scent; 1/6 HP • Relative humidity (non-condensing): 0%–95% ° () stic (UL-94-5V) Color-coded leads are 6" long e switch box) D NO. OF BUTTONS BUTTONS CONTRO D Dual Circuit W White 2 0 l Ivory A Light Almond G Gray B Black HUBBELL **Building Automation, Inc.**

PRODUCT IMAGE

RANGE DIAGRAMS













SPECIFICATIONS

Timer timeout	 Fully adjustable: 30 seconds—30 minutes
Sensitivity	Fully adjustable: 20%–100%
Passive infrared (PIR)	Multi-segment infrared (IR) Fresnel lens
Photocell	Natural light override range: 5–200 foot-can
Coverage	 900 square-foot, 180° coverage area
Power requirements	• 120 VAC; 60 Hz
Electrical ratings	120 VAC: 800W Incandescent; 1,000W Fluore:
Load requirements	• None
Operating environment	 Indoor use only
	Operating temperature: 32°-122° F (0°-50°
Construction	Casing—high-impact injection-molded plas
	 Color-coded leads are 6" long
Size and weight	• Size: 4.5" x 2.75" x 1.625"
	• Weight: 2.9 oz
Color	• Ivory; White
Mounting	 Single-gang NEMA-style switch box (average
	 Decorator-style wall plate included
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



HUBBELL

RWSOSCFL

Residential Wall Switch Sensors Occupancy Sensor for Incandescent and CFL Lighting

KEY FEATURES

- Auto-on/auto-off operation
- Zero Arc Point Switching
- No minimum load requirement
- Adjustable time delay and sensitivity
- Built-in photocell for daylight control
- Walk test indicator
- 900 square-foot, 180° coverage area
- UL and cUL listed
- 5-year warranty

15°
15°

ndles (50–2000 lux) escent • Relative humidity (non-condensing): 0%–95% ' () stic e switch box)







RANGE DIAGRAMS



SPECIFICATIONS Timer timeout • Fully adjustable: 30 seconds-30 minutes Sensitivity • Fully adjustable: 20%–100% Passive infrared (PIR) Multi-segment infrared (IR) Fresnel lens • 900 square-foot, 180° coverage area Coverage • 120 VAC; 60 Hz Power requirements • 120 VAC: 800W Incandescent; 1,000W Flue Electrical ratings Load requirements None Operating environment Indoor use only • Operating temperature: 32°-122° F (0°-Construction • Casing—high-impact injection-molded Color-coded leads are 6" long • Size: 4.5" x 2.75" x 1.625" Size and weight Color Ivory: White Mounting • Single-gang NEMA-style switch box (avera Decorator-style wall plate included Certifications UL and cUL listed 5 years Warranty

ORDERING INFORMATION





RWSVSCFL

Residential Wall Switch Sensors Vacancy Sensor for Incandescent and CFL Lighting

KEY FEATURES

- Title 24 compliant—manual-on/auto-off operation
- Zero Arc Point Switching
- No minimum load requirement
- Adjustable time delay and sensitivity
- Walk test indicator
- 900 square-feet, 180° coverage area
- UL and cUL listed
- 5-year warranty

15°			
/ 15°			
35'			
).8m)			
orescent			
	Relative humidit	y (non-condensing): 0%—95%	
50° C)		, , , , , , , , , , , , , , , , , , , ,	
	 Weight: 2.9 oz 		
rage switch box)			
12	VOV		
VOL	TAGE	COLOR	
11	20V WH	White	
t &	IV	lvorv	
ent		,	
		®®	
		ELL Building Automation, Inc.	
4 :: hubbell-automatio	n.com		

PRODUCT IMAGE







RWSOSINC RWSOSINCD **RANGE DIAGRAMS** 1.2m



SI ECHIC/(IIOIUS		
Timer timeout	 Fully adjustable: 30 seconds—30 minutes 	
Passive infrared (PIR)	Multi-segment infrared (IR) Fresnel lens	
Photocell	Natural light override range: 5–200 foot-car	
Coverage	 800 square-foot., 180° coverage area 	
Power requirements	• 120 VA;, 60 Hz	
Electrical ratings	 120 VAC: 500W Incandescent only (Do not us 	
Load requirements	25W minimum; 500W maximum	
Operating environment	Indoor use only	
	 Operating temperature: 32°-122° F (0°-50° 	
Construction	 Casing—high-impact injection-molded plas 	
	 Color-coded leads are 6" long 	
Size and weight	• Size: 4.5" x 2.75" x 1.625"	
Color	 Almond; Ivory; Light Almond; White 	
Mounting	Single-gang NEMA-style switch box (average	
	 Decorator-style wall plate not included 	
Certifications	UL and cUL listed	
Warranty	• 5 years	





OneHundred25

RWSOSINC

Residential Wall Switch Sensors Occupancy Sensors for Incandescent Lighting

KEY FEATURES

• Patent Pending Alert to OFF notification • Manual dimming control option available





Sensors connected in parallel loops

Notes:

1. Lights turn OFF only after BOTH sensors time out.

2. This is a ground-leakage powered sensor. It must be grounded to function.

3. The Residential Vacancy Sensor is for Incandescent Lighting only.







35'

(10.8

SPECIFICATIONS

Timer timeout	 Fully adjustable: 30 seconds—30 minutes
Passive infrared (PIR)	Multi-segment infrared (IR) Fresnel lens
Coverage	 800 square-foot, 180° coverage area
Power requirements	• 120 VAC; 60 Hz
Electrical ratings	120 VAC: 500W Incandescent only (Do not us
Load requirements	25W minimum; 500W maximum
Operating environment	 Indoor use only
	• Operating temperature: 32°-122° F (0°-50°
Construction	Casing—high-impact injection-molded plase
	 Color-coded leads are 6" long
Size and weight	• Size: 4.5" x 2.75" x 1.625"
	• Weight: 2.9 oz
Color	 Almond; Ivory; Light Almond; White
Mounting	Single-gang NEMA-style switch box (average
	 Decorator-style wall plate not included
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION





RWSVSINC

Residential Wall Switch Sensors Vacancy Sensors for Incandescent Lighting

• Title 24 compliant—manual-on/auto-off operation

KEY FEATURES

		 Patent Pending Alert to C Manual dimming control Zero Arc Point Switching Adjustable time delay Walk test indicator 800 square-foot, 180° co UL and cUL listed 5-year warranty 	IFF notification option available verage area
15° 15° n)			
se with flo C)	uorescent or compact fluoresce • Rela	ent lamps.) tive humidity (non-condensing	ı): 0 %–95%
e switch l	box)		
ng	INC LIGHTING INC Incandescent Only	120V VOLTAGE 120V	COLOR WH White IV Ivory LA Lt. Almond AL Almond









Sensors connected in parallel loops

2. Lights turn OFF only after BOTH sensors time out. 3. Sensor is shipped with all dip switches in the Incandescent Lighting Only.

PRODUCT IMAGE



RANGE DIAGRAMS



SPECIFICATIONS

• Fully adjustable from 30 seconds to 30 minut
Fully adjustable from 20% to 100%
Multi-segment IR Fresnel lens
Adjustable ambient light override ranges from
• 900 sq. ft., 180 degrees
• 120 or 277 VAC, 60 Hz
• 120 VAC: 800W Incandescent, 1000W Fluores
 277 VAC: 1800W Fluorescent, 1/6 HP
No minimum load
 Indoor use only
• Operating temperature: $32^{\circ} - 122^{\circ}$ F (0° to 5
 Housing – high impact, injection molded pla
 Color-coded leads are 6" long
• Size: 4.5" x 2.75" x 1.625"
White
 Single gang NEMA style switch box, decorato
UL and cUL Listed
• 5 years

ORDERING INFORMATION





IWSZP3P

Wall Switch Occupancy Sensors Automatic Passive Infrared Wall Switch Sensor

KEY FEATURES

- Zero Arc Point Switching
- No minimum load requirement
- Adjustable time delay and sensitivity
- Built-in photocell
- Walk test indicator
- Dual 120/277 VAC operation
- UL and cUL listed
- Five-year warranty



m approximately 5 foot-candles (50 lux) to 200 foot-candles (2000 lux)

scent, 1/6 HP

50° C) 0% to 95% relative humidity, non-condensing astic

• Weight: 2.9 oz

or style wall plate





Ground Lighting Load Neutral Hot Black 💽 Red Black IWSZP3P IWSZP3P Notes

1. Lights turn ON if either sensor detects occupancy.

2. Lights turn OFF only after BOTH sensors time out.

0 **RANGE DIAGRAMS**



SPECIFICATIONS

Timer timeout	 Fully adjustable: 30 seconds—30 minutes
Sensitivity	Fully adjustable: 20–100%
Passive infrared	Multi-segment infrared (IR) Fresnel lens
Coverage	 900 square feet; 180 degrees
Power requirements	• 120 or 277 VAC; 60 Hz
Electrical ratings	• 120 VAC: 800W Incandescent; 1000W Fluore
	 277 VAC: 1800W Fluorescent; 1/6 HP
Load requirements	• None
Operating environment	Indoor use only
	Operating temperature: 32°-122° F (0°-50°
Construction	Casing—high-impact injection-molded plase
	 Color-coded leads are 6" long
Size & weight	• Size: 4.5" x 2.75" x 1.625"
Color	• White
Mounting	Single-gang NEMA-style switch box (average
	 (Decorator-style wall plate not included)
Certifications	UL and cUL Listed
Warranty	• 5 years

ORDERING INFORMATION





IWSZPM

MdZSWI

Wall Switch Occupancy Sensors Manual ON/Automatic OFF Passive Infrared Wall Switch Sensor

KEY FEATURES

- Title 24 compliant manual-on/auto-off operation
- Zero Arc Point Switching
- No minimum load requirement
- Adjustable time delay and sensitivity
- Walk test indicator
- Dual 120/277 VAC operation
- UL and cUL listed
- 5-year warranty

15 °	
15°	

scent; 1/6 HP

°C) 0%–95% relative humidity; non-condensing stic

• Weight: 2.9 oz

e switch box)



MdZSWI





Notes:

1. Lights turn ON only after manual button is pushed.

2. Lights turn OFF only after BOTH sensors time out.

3. This is a ground-leakage powered sensor. It must be grounded to function.



SPECIFICATIONS	
Timer timeout	 A turnoff timer can be programmed for the for
	- 5, 15, or 30 minutes
	- 1, 3, 6, 9, or 12 hours
Power requirements	• 120 or 277 VAC; 60 Hz
Electrical ratings	• 120 VAC:
	- 800W Tungsten
	- 800W Fluorescent
	• 277 VAC:
	- 1200W Fluorescent
Load requirements	• None
Operating environment	 Indoor use only
	 Operating temperature: 32°-122° F (0°-50°
Construction	 Casing—high-impact injection-molded plas
Size and weight	• Size: 3.28" x 1.72" x 1.42"
Color	• White
Mounting	 Single-gang NEMA-style switch box (average
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION





Wall Switch Occupancy Sensors Digital Programmable Timer

- Supports multiple timer intervals
- Dip switch control of features
- Manual scroll-up for overrides
- Visual and audio turnoff warning
- Zero Arc Point Switching

• Relative humidity (non-condensing): 0%-95%

- UL and cUL listed
- 5-year warranty

following times:

- 1/6 HP Motor - 240VA Pilot Duty

° () stic

• Weight: 2.9 oz

e switch box)







Note:

1. Sensor is shipped with all dip switches in the OFF position (Factory Default)

ADDITIONAL PRODUCT IMAGES



LVSM2NP

LVSM1NP

LVSM1PL

SPECIFICATIONS	
Each Kit Includes:	 2 ea - Wire Way Divider Plates
	 2 ea – Stainless Steel mounting Screws
	 Installation Instructions
Operating environment	Indoor use only
Size & Weight	• Size: 4.25"W x 3.25"L
-	• Weight: 3.0 oz
Color	ANSI 61 Gray Polyester Powder Coat
Certifications	 For use with LX Series UL and cUL Listed LXIN a
Warranty	• 2 years

ORDERING INFORMATION

MODEL LVSM1NPIV Low Voltage Switch, Momentary, 1 Button, No Pilot, Ivory LVSM1NPWH Low Voltage Switch, Momentary, 1 Button, No Pilot, White LVSM1PLIV Low Voltage Switch, Momentary, 1 Button, w/Pilot LED, Ivory LVSM1PLWH Low Voltage Switch, Momentary, 1 Button, w/Pilot LED, White LVSM2NPIV Low Voltage Switch, Momentary, 2 Button, No Pilot, Ivory LVSM2NPWH Low Voltage Switch, Momentary, 2 Button, No Pilot, White LVSM2PLIV Low Voltage Switch, Momentary, 2 Button, w/Pilot LED's, Ivory LVSM2PLWH Low Voltage Switch, Momentary, 2 Button, w/Pilot LED's, White LVSL1NPIV Low Voltage Switch, Latching, 1 Button, No Pilot, Ivory LVSL1NPWH Low Voltage Switch, Latching, 1 Button, No Pilot, White LVSL1PLIV Low Voltage Switch, Latching, 1 Button, w/Pilot LED, Ivory LVSL1PLWH Low Voltage Switch, Latching, 1 Button, w/Pilot LED, White LVSL2NPIV Low Voltage Switch, Latching, 2 Button, No Pilot, Ivory LVSL2NPWH Low Voltage Switch, Latching, 2 Button, No Pilot, White LVSL2PLIV Low Voltage Switch, Latching, 2 Button, w/Pilot LED's, lvory LVSL2PLWH Low Voltage Switch, Latching, 2 Button, w/Pilot LED's, White



LVS

Wall Switch Occupancy Sensors LV Series–Low Voltage Switches

KEY FEATURES

- Attractive, architecturally pleasing design
- Momentary and latching versions available
- 1-2 buttons with or without LED
- Mounts to standard single-gang box
- 2-year warranty

FOR USE WITH

- HBA Low Voltage Occupancy Sensors
- LX Networked Lighting Controls
- HBA Daylighting Controls



LVSM2PL

and LXEN network lighting control panels









Wiring Diagram C - LVS 2-Button Latching or Momentary Switch, No Pilot



Wiring Diagram E - LVS 3-Button Latching or Momentary Switch, No Pilot



Wiring Diagram G - LVS 4-Button Latching or Momentary Switch, No Pilot



Wiring Diagram B - LVS 1-Button Latching or Momentary Switch, with Pilot LED*



Wiring Diagram D - LVS 2-Button Latching or Momentary Switch, with Pilot LEDs*



Wiring Diagram F - LVS 3-Button Latching or Momentary Switch, with Pilot LEDs*



Wiring Diagram H - LVS 4-Button Latching or Momentary Switch, with Pilot LEDs*

*Note Pilot Polarity Marks

PRODUCT IMAGE





OMNIDT1000 Range Diagram

OMNIDT2000 Range Diagram

SPECIFICATIONS

IntelliDAPT	 Auto reset from test setting 	 Self-adjusting ultrasonic and passive infrared thresholds 	
	Self-adjusting timer	 Automatic false-on/false-off corrections 	
LED lamp	Red—infrared motion	Green—ultrasonic motion	
Timer timeout	 Automatic mode: 8–30 min. (self-adjusts based on occupancy) 	 Test mode: 8 seconds (for an easy check at installation) 	
Ultrasonic (US) output	OMNIDT500: 40kHz output	 OMNIDT1000 and OMNIDT2000: 32kHz 	
Passive infrared (PIR)	 Dual-element pyrometer and 12-element cylindrical rugged lens 		
RP option	Relay and photocell included		
	Relay: NO + NC contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay		
	 Photocell: adjustable natural-light override ranges from 0 to 100 foot- 	candles (0—1,000 lux)	
Coverage	 500–2,000 square feet (depending on model) 		
Power requirements	• 24 VDC, 33 mA (uses UVPP and MP-Series power pack—not included)		
Output	• 24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP Option)		
Operating environment	Indoor use only	 Relative humidity (non-condensing): 0%–95% 	
	 Operating temperature: 32°–104° F (0°–40° C) 		
Construction	Casing—rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors		
	 Color-coded leads are 6" long 		
Size and weight	 Size: 4.5" diameter, 1.5" height (114 mm diameter, 38mm height) 	• Weight: 5.0 oz (142g)	
Color	Off white		
Mounting	Mounting base provided	 Recommended MAX Mounting height: 12ft. 	
Certifications	UL and cUL listed		
Warranty	• 5 years		

ORDERING INFORMATION





OMNIDT OMNIDTRP Ceiling and Wall Mount Occupancy Sensors

OMNI[™] Dual Technology Últrasonic and Passive Infrared Ceiling Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor
- Non-volatile memory for sensor settings
- 500–2,000 square-foot coverage area (depending on model)
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty



OMNIDT500 Range Diagram

OneHundred37

PRODUCT IMAGE







111. 1 180

CDECIEICATIONS

SPECIFICATIONS	
IntelliDAPT	Auto reset from test setting
	 Self-adjusting timer
LED lamp	Green—ultrasonic motion
Timer timeout	Automatic mode: 8–30 min. (self-adjusts bas
	Test mode: 8 seconds (for an easy check at ins
Ultrasonic (US) output	OMNIUS500: 40kHz output
RP option	 Relay and photocell included
	 Relay: NO + NC contacts; SPDT; 500 mA rated
	 Photocell: adjustable natural-light override ratio
Coverage	• 500–2,000 square feet (depending on model
Power requirements	 24 VDC, 33 mA (uses UVPP and MP-Series pov
Output	 24 VDC active high-logic control signal with s
Operating environment	 Indoor use only
	 Operating temperature: 32°–104° F (0°–40° C)
Construction	 Casing—rugged, high-impact, injection-mol
	 Color-coded leads are 6" long
Size and weight	Size: 4.5" diameter, 1.5" height (114 mm dian
Color	Off white
Mounting	 Mounting base provided
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



OMNIUS OMNIUSRP

OMNIUS OMNIUSRP Ceiling and Wall Mount Occupancy Sensors OMNI[™] Ultrasonic Ceiling Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital ultrasonic (US) technology
- Non-volatile memory for sensor settings
- 500–2,000 square-foot coverage area (depending on model)
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty



OMNIUS2000 Range Diagram



US-2000 Range Diagram - hallway application

• Self-adjusting ultrasonic thresholds Automatic false-on/false-off corrections

sed on occupancy)

stallation)

OMNIUS1000 and OMNIUS2000: 32kHz output

d @ 24VDC; three-wire isolated relay

anges from 0 to 100 foot-candles (0–1,000 lux)

wer pack—not included)

hort circuit protection and optional dry contact (see: RP Option)

• Relative humidity (non-condensing): 0%–95%

Ided plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors

neter, 38mm height)

• Weight: 5.0 oz (142g)

• Recommended MAX mounting height: 12ft.

PRODUCT IMAGE

OMNIUS | OMNIUSRP



RANGE DIAGRAMS



SPECIFICATIONS IntelliDAPT Auto reset from test setting • Self-adjusting passive infrared thresholds Self-adjusting timer Automatic false-on/false-off corrections LED lamp Red—infrared motion Timer timeout • Automatic mode: 8–30 min. (self-adjusts based on occupancy) • Test mode: 8 seconds (for an easy check at installation) Passive infrared (PIR) Dual-element pyrometer and 12-element cylindrical rugged lens **RP** option Relay and photocell included • Relay: NO + NC contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay • Photocell: adjustable natural-light override ranges from 0 to 100 foot-candles (0-1,000 lux) • 450 and 1,500 square feet (depending on model) Coverage Power requirements • 24 VDC, 33 mA (uses UVPP and MP-Series power pack—not included) • 24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP Option) Output **Operating environment** Indoor use only • Relative humidity (non-condensing): 0%–95% • Operating temperature: 32°–104° F (0°–40° C) Casing—rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors Construction Color-coded leads are 6" long Size and weight Size: 4.5" diameter, 1.5" height (114 mm diameter, 38mm height) • Weight: 5.0 oz (142g) Color Off white Mounting Mounting base provided Recommended MAX mounting height: 12ft. Certifications UL and cUL listed 5 years Warranty



OMNIIR | **OMNIIRP** Ceiling and Wall Mount Occupancy Sensors OMNI[™] Passive Infrared Ceiling Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital passive infrared (PIR) sensor
- Non-volatile memory for sensor settings
- 450–1,500 square-foot coverage area (depending on model)
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty



Building Automation, Inc.

HUBBELL
PRODUCT IMAGE

RANGE DIAGRAMS

SPECIFIC

OMNIR | OMNIRP



	22'
	OMNIDIA Rang
ATIONS	
 Auto reset from test settin 	a

IntelliDAPT	Auto reset from test setting
	Self-adjusting timer
LED lamp	Red—infrared motion
	 Green—acoustic detection
Timer timeout	 Automatic mode: 8–30 min. (self-adjusts ba
	 Test mode: 8 seconds (for an easy check at in
Passive infrared (PIR)	 Dual-element pyrometer and 12-element cy
RP option	 Relay and photocell included
	 Relay: NO + NC contacts; SPDT; 500 mA rate
	 Photocell: adjustable natural-light override
Coverage	 450 square feet (depending on model)
Power requirements	 24 VDC, 33 mA (uses UVPP and MP-Series pc
Output	24 VDC active high-logic control signal with
Operating environment	 Indoor use only
	 Operating temperature: 32°-104° F (0°-40°
	 Relative humidity (non-condensing): 0%-9
Construction	 Casing—rugged, high-impact, injection-me
	 Color-coded leads are 6" long
Size and weight	Size: 4.5" diameter, 1.5" height (114 mm dia
Color	Off white
Mounting	 Mounting base provided
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



OMNIDIA OMNIDIARP Ceiling and Wall Mount Occupancy Sensors

OMNI[™] Dual Technology Acoustic and Passive Infrared Ceiling Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital dual technology (acoustic and passive infrared [PIR]) sensor
- · Non-volatile memory for sensor settings
- 450 square-foot coverage
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty

ige Diagram

Self-adjusting passive infrared and acoustic thresholds
 Automatic false-on/false-off corrections

sed on occupancy)

stallation)

lindrical rugged lens

d @ 24VDC; three-wire isolated relay ranges from 0 to 100 foot-candles (0–1,000 lux)

ower pack—not included)

short circuit protection and optional dry contact (see: RP Option)

° ()

5%

olded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors

meter, 38mm height) • Weight: 5.0 oz (142g)

• Recommended MAX mounting height: 12ft.

HUBBELL

PRODUCT IMAGE





RANGE DIAGRAM

80' 40' 40'

SPECIFICATIONS

Sensitivity	 Fully adjustable: 0% - 100%
Timer Timeout	 Fully adjustable: 30 sec. to 30 min.
Passive Infrared	• Multi-segmented, high-density Fresnel™ IR
LED Lamp	Walk test indicator
	 Red — Infrared motion
Coverage	 16' x 80' linear feet
Power Requirements	 24VDC (uses UVPP power pack – not include
Output	 24 VDC active high logic control signal
Operating environment	 Indoor use only
	 Operating temperature: 0°F – 100°F (-18°C -
Construction	 Housing – Rugged, high impact, injection m
	Color-coded leads
Size & Weight	• Size: 4.72" L x 2.76" W x "1.10" D
	(119.8mm L x 70.0mm W x 27.9mm D)
	• Weight: 3.0 oz
Color	• White
Mounting	 Sensors may be mounted using a single gan
	to a 4-inch square electrical box
	 Recommended MAX mounting height: 10 Ft
Certifications	• UL Listed
Warranty	• 5 years

ORDERING INFORMATION





PIR1000H

PIR1000H

Ceiling and Wall Mount Occupancy Sensors Passive Infrared Ceiling Sensor for Hallway Applications

KEY FEATURES

- 16' x 80' linear feet of coverage
- LED walk test indicator
- 30 second 30 minute time delay
- UL listed
- 5-year warranty



lens

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– 38°C) nolded plastic

ng mud ring attached









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Sensitivity	 Fully adjustable: 0% - 100%
Timer Timeout	 Fully adjustable: 30 sec. to 30 min.
Ultrasonic output	Operating frequency: 32.7kHz
Passive Infrared	• Multi-segmented, high-density Fresnel™ IR le
LED Lamp	Walk test indicator
	 Red – Infrared motion, Green – Ultrasonic motion
Coverage	• 360 degrees
	• Up to 2000 sq. ft.
Power Requirements	 CUI5002000P120 — 120 VAC, 50/60 Hz
	 CUI5002000P277 – 277 VAC, 50/60 Hz
Electrical Ratings	 CUI5002000P120 – 2400 watts @ 120 VAC 50
Output	 24 VDC active high logic control signal
Operating environment	Indoor use only
	 Operating temperature: 32° – 122° F (0° to 50
Construction	 Housing – Rugged, high impact, injection module
	Color-coded leads
Size & Weight	• Size: 4.87" dia., 2.44" deep (123.7 mm dia., 62
	• Weight: 3.0 oz
Color	• White
Mounting	 Sensors may be mounted using a single gang
	 Recommended MAX mounting height: 9 Ft.
Certifications	• UL Listed
Warranty	• 5 years

ORDERING INFORMATION







This diagram is for any line voltage sensor.

NOTES

HUBBELL

CUI5002000P

CUI5002000P

Ceiling and Wall Mount Occupancy Sensors Dual Technology and Passive Infrared Line Voltage Ceiling Mount Sensor

KEY FEATURES

- Self-contained power supply
- 2000 sq. ft. coverage
- 5 Programming options
- Adjustable time delay
- Adjustable sensitivity
- UL listed
- Five-year warranty

Ultrasonic Detection/Major motion area

📰 Ultrasonic Detection/Minor motion area

PIR Detection/Major motion area

ens

otion

)/60 Hz

• CUI5002000P277 - 5000 watts @ 277 VAC 50/60 Hz

50°C) olded plastic

62mm deep)

mud ring attached to a 4-inch square electrical box

VOLTAGE

HUBBELL

PRODUCT IMAGE





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RANGE DIAGRAM



SPECIFICATIONS

Sensitivity	 Fully adjustable: 0% –00%
Timer timeout	 Fully adjustable: 30 seconds—30 minutes
Ultrasonic output	Operating frequency: 32.7kHz
LED lamp	 Walk test indicator (a blinking light indicate
Coverage	2,000 square feet
Power requirements	• C5002000P120: 120 VAC; 50/60 Hz
	 C5002000P277: 277 VAC; 50/60 Hz
Electrical ratings	C5002000P120: 2400 watts @ 120 VAC; 50/
	• C5002000P277: 5000 watts @ 277 VAC; 50/
Operating environment	Indoor use only
	• Operating temperature: 32°-122°F (0°-50°
Construction	Casing—rugged, high-impact, injection-m
	Color-coded leads
Size and weight	• Size: 5.0" x 2.87" x 1.37" (127.5 mm x 73.0 n
	• Weight: 3.0 oz
Color	White
Mounting	Sensors can be mounted using a single-gan
	Recommended MAX mounting height: 9ft.
Certifications	• UL listed
Warranty	• 5 years

ORDERING INFORMATION





C5002000P

C5002000P

Ceiling and Wall Mount Occupancy Sensor Ultrasonic Line Voltage Ceiling Mount Sensor

KEY FEATURES

- Self-contained power supply
- 2,000 square-foot coverage
- Adjustable time delay
- Adjustable sensitivity
- UL listed
- 5-year warranty

es the sensor is working)

/60 Hz /60 Hz

°C)

nolded plastic

mm x 35.0 mm)

ng mud ring attached to a 4-inch square electrical box

VOLTAGE







RANGE DIAGRAM



SPECIFICATIONS	
Sensitivity	• Fully adjustable: 0%—100%
Timer timeout	 Fully adjustable: 30 seconds—30 minutes
Ultrasonic output	Operating frequency: 32.7kHz
LED lamp	Walk test indicator (a blinking light indicates
Coverage	• 1,500 square feet
Power requirements	• C8001500P120: 120 VAC; 50/60 Hz
	• C8001500P277: 277 VAC; 50/60 Hz
Electrical ratings	C8001500P120: 2,400 watts @ 120 VAC; 50/
	C8001500P277: 5,000 watts @ 277 VAC; 50/
Operating environment	Indoor use only
	 Operating temperature: 32°-122° F (0°-50°
Construction	Casing—rugged, high-impact, injection-me
	Color-coded leads
Size and weight	• Size: 4.87" diameter, 1.65" height (123.7 mm
	• Weight: 3.0 oz
Color	White
Mounting	 Sensors can be mounted using a single-gan
	 Recommended MAX mounting height: 9ft.
Certifications	UL and cUL Listed
Warranty	• 5 years

ORDERING INFORMATION





HUBBELL

C8001500

C8001500

Ceiling and Wall Mount Occupancy Sensor Ultrasonic Line Voltage **Ceiling Mount Sensor**

KEY FEATURES

- Self-contained power supply
- 1,500 square-foot coverage
- Adjustable time delay
- Adjustable sensitivity UL and cUL listed
- 5-year warranty

s the sensor is working)

/60 Hz /60 Hz

° ()

olded plastic

diameter, 41.9 mm height)

ng mud ring attached to a 4-inch square electrical box

VOLTAGE





NOTE:

1.DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

NOTES

RANGE DIAGRAM



SPECIFICATIONS

Sensitivity	Fully adjustable: 20% –100%	
Timer timeout	Fully adjustable: 30 seconds—30 minutes	
LED lamp	 Walk test indicator (blinking light indicates the sensor is working) 	
Integral photocell	 Natural-light override range: 5–200 foot-candles (5–200 lux) 	
Auxiliary relay	 SPDT; 1 A rated @ 24VDC (Model PIR10EMS only) 	
Coverage	• 360° coverage area	 1,500 square feet @ 10' mounting height
Power requirements	• PIR10P: 120–347 VAC	
	• PIR10EMS: 24 VDC, 10 mA (uses MP-Series power pack—not included)	
Operating environment	 Indoor use only 	 Relative humidity (non-condensing): 0%–95%
	 Operating temperature: 32°–131°F (0°–55°C) 	
Construction	 Housing – Rugged, high-impact, injection-molded plastic KJB 	 Color-coded leads are 6" long
	 ABS Cycolac (UL-945VA) flame class rating, UV inhibitors 	
Size and weight	 Size: 4.0" diameter, 1.9" height (101 mm diameter, 48mm height) 	
	• Weight: 3.0 oz	
Color	• White	
Mounting	 Metal mounting ring provided (PIR10EMS only) 	 Attached to a 4" square electrical box
	PIR10 sensors can be mounted using a 3-0 round mud ring	Recommended MAX mounting height: 10ft.
Certifications	UL and cUL listed	
Warranty	• 5 years	

ORDERING INFORMATION





PIR10

Ceiling and Wall Mount Occupancy Sensors Low Profile Passive Infrared Ceiling Sensor

KEY FEATURES

- Low-profile design
- Integral photocell control
- Auxiliary relay version available
- Line-voltage version available
- 1,500 square-foot, 360° coverage area
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty









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RANGE DIAGRAM



SPECIFICATIONS	
IntelliDAPT technology	 Auto reset from test setting
	 Self-adjusting timer
LED lamps	 Red – infrared motion
	 Green — ultrasonic motion
Timer timeout	Automatic mode: 8–30 minutes (self-adjusts)
	 Test mode: 8 seconds (for an easy check at in:
Ultrasonic (US) output	Operating frequency: 32kHz
RP option	 Relay and photocell included
	• Relay: NO + NC contacts; SPDT; 500 mA rated
	 Photocell: adjustable natural-light override r
Coverage	• 1,600 square feet
Power requirements	• 24 VDC, 33 mA (uses UVPP and MP-Series por
Output	24 VDC active high-logic control signal with s
Operating environment	 Indoor use only
	 Operating temperature: 32° – 104° F (0° – 40°
Construction	 Casing—rugged, high-impact, injection-mo
	 Color-coded leads are 6" long
Size and weight	• Size: 6.58" x 3.63" x 3.72"
Color	• Off white
Mounting	 Mounting base provide
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



LODT | LODTRP Ceiling and Wall Mount Occupancy Sensors LightOWL™ Dual Technology Ultrasonic and PIR Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor
- Non-volatile memory for sensor settings
- 1,600 square-foot coverage area
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty

• Self-adjusting ultrasonic and passive infrared thresholds Automatic false-on/false-off corrections

s based on occupancy) stallation)

• Factory set at 3,000 lux (disable photocell)

d @ 24 VDC; three-wire isolated relay

ranges from 0 to 100 foot-candles (0–1,000 lux)

ower pack—not included)

short circuit protection and optional dry contact (see: RP Option) • Relative humidity (non-condensing): 0%–95%

HUBBELL

° ()

olded plastic KJB ABS Cycolac (UL-945VA)

• Weight: 5.0 oz (142g)

• Recommended MAX mounting height: 12ft.





RANGE DIAGRAMS



LOIR Range Diagram

SPECIFICATIONS	
IntelliDAPT technology	 Auto reset from test setting
	 Self-adjusting timer
LED lamp	 Red—infrared motion
Timer timeout	 Automatic mode: 8–30 minutes (self-adjustic)
RP option	 Relay and photocell included
	 Relay: NO + NC contacts; SPDT; 500 mA rate
	 Photocell: adjustable natural-light override
Coverage	LOIRWV (Wide View): 1,600 square feet
Power requirements	 24 VDC, 33 mA (uses UVPP and MP-Series p
Output	 24 VDC active high-logic control signal with
Operating environment	 Indoor use only
	Operating temperature: 32°-104° F (0°-40
	 Relative humidity (non-condensing): 0%–
Construction	 Casing – rugged, high-impact, injection-m
	 Color-coded leads are 6" long
Size and weight	• Size: 6.58" x 3.63" x 3.72"
Color	Off white
Mounting	 Mounting base provided
	 Recommended MAX mounting height: 12ft
Certifications	 UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



OneHundred57

LOIRWV LOIRWVRP Ceiling and Wall Mount Occupancy Sensors LightOWL[™] Passive Infrared Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital passive infrared (PIR) sensor
- Non-volatile memory for sensor settings
- 1,600 square-foot coverage area
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty

PRODUCT IMAGE

LOIRWV | LOIRWVRP







SPECIFICATIONS	
IntelliDAPT technology	 Auto reset from test setting
	 Self-adjusting timer
LED lamp	 Red—infrared motion
Timer timeout	Automatic mode: 8–30 minutes (self-adjust
RP option	 Relay and photocell included
	 Relay: NO + NC contacts; SPDT; 500 mA rate
	Photocell: adjustable natural-light override
Coverage	LOIRWV (Wide View): 1,600 square feet
Power requirements	• 24 VDC, 33 mA (uses UVPP and MP-Series po
Output	24 VDC active high-logic control signal with
Operating environment	Indoor use only
	• Operating temperature: 32°-104° F (0°-40°
	 Relative humidity (non-condensing): 0%–9.
Construction	 Casing – rugged, high-impact, injection-mo
	 Color-coded leads are 6" long
Size and weight	• Size: 6.58" x 3.63" x 3.72"
Color	Off white
Mounting	Mounting base provided
	Recommended MAX mounting height: 12ft.
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION



LOIRHB | LOIRHBRP Ceiling and Wall Mount Occupancy Sensors LightOWL[™] Passive Infrared Sensor featuring IntelliDAPT®

PRODUCT IMAGE

LOIRHB | LOIRHBRP





RANGE DIAGRAMS



SPECIFICATIONS	
IntelliDAPT technology	 Auto reset from test setting
	 Self-adjusting timer
LED lamp	 Red—infrared motion
	 Green—acoustic detection
Timer timeout	Automatic mode: 8–30 minutes (self-adjus
Passive infrared (PIR)	Dual-element pyrometer and 12-element c
RP option	 Relay and photocell included
	 Relay: NO + NC contacts; SPDT; 500 mA rate
	Photocell: adjustable natural-light override
Coverage	1,600 square feet
Power requirements	 24 VDC, 33 mA (uses UVPP and MP-Series p
Output	24 VDC active high-logic control signal with
Operating environment	 Indoor use only
	 Operating temperature: 32°-104° F (0°-40
Construction	 Casing – Rugged, high-impact, injection-m
	 Color-coded leads are 6" long
Size and weight	• Size: 6.58" x 3.63" x 3.72"
Color	Off white
Mounting	Mounting base provided
	 Recommended MAX mounting height: 12ft
Certifications	UL and cUL listed
Warranty	• 5 years
-	

ORDERING INFORMATION





LODIA LODIARP Ceiling and Wall Mount Occupancy Sensors LightOWL[™] Dual Technology Passive Infrared and Acoustic Sensor featuring IntelliDAPT®

KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital dual technology (passive infrared [PIR] and acoustic) sensor
- · Non-volatile memory for sensor settings
- 1,600 square-foot coverage area
- Optional relay and photocell control
- Optional Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty

 Self-adjusting passive infrared and acoustic thresholds Automatic false-on/false-off corrections

sts based on occupancy) • Test mode: 8 seconds (for an easy check at installation) ylindrical rugged lens

ed @ 24 VDC; three-wire isolated relay e ranges from 0 to 100 foot-candles (0–1,000 lux)

ower pack—not included)

short circuit protection and optional dry contact (see: RP Option)

• Relative humidity (non-condensing): 0%–95%

)° ()

nolded plastic KJB ABS Cycolac (UL-945VA) flame class rating, UV inhibitors

• Weight: 5.0 oz (142g)

HUBBELL

Building Automation, Inc.

OneHundred61

PRODUCT IMAGE











ORDERING INFORMATION





Requires 33mA each

or slave packs) from a single power pack.



HUBBELL **Building Automation, Inc.**

Ceiling and Wall Mount Occupancy Sensors Occupancy Sensor Accessories

KEY FEATURES

ACAK — ACOUSTIC CEILING MOUNTING KIT for ceiling and wall mount sensors used with acoustic ceiling tile. ACAK uses integral cutting teeth for quicker installation. Color: White.

LMRA — LIGHTOWL MUD RING ADAPTER A LightOWL goof ring for covering oversized holes. Color: White.

HCRA — HARD CEILING RACEWAY ADAPTER for OMNI[™] sensors. The HCRA is compatible with Hubbell[™] and Wiremold[™] raceway. The HCRA has knockout raceway holes for quick and clean installation. Color: White.

OPE – OMNI PROTECTIVE ENCLOSURE

The OPE is a NEMA Type 4X enclosure specifically designed for use with HBA's OMNIIR ceiling mount occupancy sensor. Designed to provide protection from foreign materials and water, the enclosure is acceptable for use in a variety of environments including applications in the pharmaceutical and food preparation industries. Size: 6.5" dia., 2" height. Color: White.

WGWS - Wall mount wire guard for wall switches, 6.25"H x 4.0"W x 2.25"D

WGLO – Wall mount wire guard for LightOWL sensors, 7.0"H x 5.75"W x 4.5"D

WGOMNI – Ceiling mount guard for OMNI sensors, 7.0"W x 3.25"D (circular guard)

Wire guards are heavy-duty coated wire guards for sensors to protect from destructive strikes. Mounting clips are included. Color: White.

Building Automation, Inc.

HCRA



WGLO



HUBBELL

PRODUCT IMAGE











SPECIFICATIONS	
Power requirements	• 100–277 VAC; 50/60Hz
Output	 24 VDC; 150mA nominal, isolated, and regul
Relay contact rating	 20A: 120 VAC Incandescent
	 20A: 120 or 277 VAC Ballast
Construction	High-impact UL 94-5V plastic
Plenum rated	 Complies with requirements for use in a pler
	 Plenum rated for external junction box mou
Operating environment	 Indoor use only
	 Operating temperature: 32°-104° F (0°-40°
Size	• 3.69" x 2.33" x 1.36"
Color	• Black
Certifications	UL and cUL listed
Warranty	• 5 years

ORDERING INFORMATION





UVPP Power Packs and Relays Universal Voltage Power Pack



KEY FEATURES

- Universal voltage (100–277 VAC; 50/60Hz)
- Automatic voltage detection
- Electrical load switching capability: maximum of 20 Amps
- Regulated 24 VDC current; 150mA output; short circuit protected
- Zero Arc Point Switching
- Plenum rated
- Mounts: inside or outside a junction box; inside a fluorescent ballast cavity
- Available with exclusive Quick to Install (QTI) connector
- UL and cUL listed
- 5-year warranty

 Single phase only ated • 1HP: 120 or 277 VAC Motor Load num area nting • Relative humidity (non-condensing): 0%–95% °C)





SPECIFICATIONS	
Power Requirements	• 100-277VAC, 50/60Hz
Output	 24VDC, 150mA nominal, isolated and regulate
Relay Contact Rating	 20A, 120VAC Incandescent
	 20A, 120 or 277VAC Ballast
	 1HP, 120 or 277VAC Motor Load
Construction	 High impact, UL 94-5V plastic
Plenum Rated	 Complies with requirements for use in a comp
	 Plenum rated for external junction box mount
Operating environment	 Indoor use only
	 Operating temperature: 32°- 104°F (0°- 40°C
	0% to 95% relative humidity, non-condensing
Size	• 3.69"L x 2.33"W x 1.36"H
Color	• Black
Certifications	UL and cUL Listed
Warranty	• 5 years

ORDERING INFORMATION





NOTES



UVPPM

Power Packs and Relays Universal Voltage Power Pack with Manual ON/OFF Control

KEY FEATURES

- Manual ON/OFF support
- Universal voltage 100 to 277VAC, 50/60Hz
- Automatic voltage detection
- Capable of switching up to 20 Amps of electrical load
- Regulated 24VDC current,
- 150mA output, short circuit protected
- Zero Arc Point Switching
- Plenum rated
- Mounts inside or outside junction box, or inside fluorescent ballast cavity
- UL and cUL Listed
- 5 year warranty

partment handling conditioned air (plenum) ting

OneHundred67





PRODUCT IMAGE

MP347A MP Slave MPSA CDECIEICATIONIC

SPECIFICATIONS				
Construction	 High-impact UL 94-5V plastic 			
Relay	Class B (130° C) insulating material			
	 Silver-alloy 	contacts		
Transformer	• Class II 347	VAC primary		
Output	• 24 VDC; 100) mA nominal,	, full-wave rec	tified,
	• Each HBA se	ensor contains	an internal v	oltage
Relay contact rating	• 15 A: 347 V	Ballast		
Wire	• 7" leads 18	AWG input; 7"	'leads 16 AWC	i conta
Plenum rated	 Complies w 	ith requireme	nts for use in a	a plen
Power requirements	• 347 VAC @ 60Hz.			
Total wire length		1 sensor	2 sensors	3 se
		0 slaves	0 slaves	0 s
	22 AWG	750′	375′	2
	22 AWG	750′	375′	2
	20 AWG	1,200′	600′	4
	18 AWG	2,400'	1,200'	8
Operating environment	 Indoor use 	only		
	 Operating t 	emperature: 3	32°—104° F (0°	°–40°
	 Relative hu 	midity (non-c	ondensing): 0	%-95
Size and weight	• 3.69" x 2.33	3‴ x 1.36″; 15 c	oz. (93 mm x 5	9 mm
	• Weight: 5.0	oz (142g)		
Color	 Black 			
Certifications	 UL and cUL 	listed		
Warranty	 5 years 			





Power Packs and Relays MP Power Pack "A" Series

KEY FEATURES

- Plenum rated
- Self-contained transformer and relay
- 347 VAC, 60Hz
- Regulated 24 VDC current; 100 mA output
- Easily mounts inside or outside a junction box
- Optional Quick To Install (QTI) connector
- Companion auxiliary relay device available
- UL and cUL listed
- 5-year warranty

, and filtered e regulator tacts num area (compartment-handling conditioned air) ensors 1 sensor 2 sensors 1 sensor slaves 1 slave 1 slave 2 slaves 250′ 375′ 250′ 250′ 250′ 375′ 250′ 250′ 400′ 600′ 400′ 400' 800′ 800′ 1,200′ 800′ ° () 5% n x 35 mm; 400g)



PRODUCT IMAGE





1. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.



OVERVIEW

"Quick To Install" says it all. Capable of interconnecting a sensor and power pack in a fraction of the time. The QTI connector eliminates low-voltage wiring nuts to ensure error-free connections. The QTI system saves time and money, a 25% savings in labor costs alone, and the elimination of call backs and costly trouble-shooting. The QTI system is available on most Hubbell Building Automation low-voltage sensors and power packs.



ORDERING INFORMATION



NOTE:

1. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.



QTI Quick To Install System QTI[™] System and Accessories

KEY FEATURES

- Dramatically reduce installation cost
- Easy to install; fast ad efficient
- Completely removable and reusable if necessary
- UL-approved plenum cable in accordance with NEC Article 725
- Eliminates need for large spools of cable for installation of plenum cable runs
- Reduces possibility of transposing wires as in conventional splicing wire terminations



H



SPECIFICATIONS

Power requirements	• 100–277 VAC; 50/60Hz	Single phase only
Output	 24 VDC; 150mA nominal, isolated, and regulated 	
Relay contact rating	20A: 120 VAC Incandescent	 1HP: 120 or 277 VAC Motor Load
	 20A: 120 or 277 VAC Ballast 	
Construction	High-impact UL 94-5V plastic	
Plenum rated	 Complies with requirements for use in a plenum area 	 Plenum rated for external junction box mounting
Operating environment	Indoor use only	
	 Operating temperature: 32°-104° F (0°-40° C) 	
	 Relative humidity (non-condensing): 0%–95% 	
Size	• 3.69" x 2.33" x 1.36"	
Color	• Black	
Certifications	UL and cUL listed	
Warranty	• 5 years	

ORDERING INFORMATION





RRU Power Packs and Relays Line Voltage Auxiliary Relays

RRU

KEY FEATURES

- 120 or 277VAC models available
- 20 Amp switching capacity
- N.O. isolated contact
- UL and cUL listed
- Five-year warranty

Note: The RRU's are used in conjunction with line voltage sensors and provide 20 amp switching capability. The RRU's feature a Normally Open (N.O.) isolated contact and must be mounted inside a junction box.





SPECIFICATIONS

# Relays & Contact Type	 One (1) SPDT Continuous Duty Coil 	
Expected Relay Life	10 million cycles minimum mechanical	
Gold Flash	• Yes	
Contact Ratings	• 10 Amp resistive @ 120-277 VAC	
	 10 Amp resistive @ 28 VDC 	
	• 480 VA Pilot Duty @ 240-277 VAC	
	• 480 VA Ballast @ 277 VAC	
	• 600 Watt Tungsten @ 120 VAC N.O.	
Coil Current	• 30 mA @ 10 VAC 12 mA @ 10 VDC	
	• 32 mA @ 12 VAC 14 mA @ 12 VDC	
	• 42 mA @ 24 VAC 16 mA @ 24 VDC	
	• 50 mA @ 30 VAC 18 mA @ 30 VDC	
	• 25 mA @ 120 VAC	
Coil Voltage Input	• RR1SPDTC120: 10-30 VAC/DC, 120 VAC; 50-6	
	 RR1SPDTC277: 10-30 VAC/DC, 208-277 VAC; 	
Operating environment	• -30 to 140°F	
Housing Rating	• Plenum, NEMA 1	
Wires	• 16", 600V Rated	
Certifications	UL and cUL Listed, UL916, UL864	
Warranty	• 1 year	

ORDERING INFORMATION



RR1SPDTC277 Enclosed Relay 10 Amp SPDT with 10-30 VAC/ DC/208-277 VAC Coil



RR1SPDTC Power Packs and Relays Enclosed 10 Amp SPDT Relays

KEY FEATURES

- 10 Amp SPDT Relay
- Available with either 10-30 VAC/DC/120 VAC Coil or 10-30 VAC/DC/208-277 VAC Coil
- LED status indicator
- N.O. and N.C. isolated contacts
- UL and cUL listed
- One-year warranty

• 240 Watt Tungsten @	120 VAC N.C
-----------------------	-------------

- 1/3 HP for N.O. @ 120-240 VAC
- 1/6 HP for N.C. @ 120-240 VAC
- 1/4 HP for N.O. @ 277 VAC
- 1/8 HP for N.C. @ 277 VAC

60Hz ; 50-60Hz





NOTE:

1.DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

NOTES

Index

C5002000P149)
C8001500P 151	l
CUI5002000P147	7
Custom Engraved Switch Station Buttons	5
DLC7 101	l
DLCPCC 105	5
DLCPCI/DLCPCO DLCPCA/DLCPCS 103	3
HBA Wasp	
High Bay Sensor Accessories	3
IWSZP3P 129)
IWSZPM 131	
LightBat [™] G2)
LightHAWK™LHIRD119)
LightHAWK™LHIRS117	7
LightHAWK™LHMTD111	
LightHAWK™LHMTS 109)
LightHAWK™LHUSD115	5
LightHAWK™LHUSS113	3
LightOWL [™] LODIA/LODIARP	l
LightOWL [™] LODT/LODTRP 155	5
LightOWL [™] LOIRHB/LOIRHBRP)
LightOWL [™] LOIRWV/LOIRWVRP	7
LUXSTATDCM	7
LUXSTATDNCM	5
LUXSTATLS	7
LUXSTATOCM)
LUXSTATOCM1Z	3
LUXSTATPP	1
LUXSTATSW)
LVS	5
LX 4 8 16 32 48 27	7
LXBC	
LXBR	3
LXDCMIFT	7
LXENDM	9
LXJNSYS	7
LXKEY	1
LXLPM2	1
I XOMNIDT2000	3
XPS	5
XB)
I XRRM	3
I XRWRSPLY 55	5
XS)
XSW)

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LXTB
LXTERMINATOR
LXUL92461
LXWRDV
MP347 / MPSA 169
Occupancy Sensor Accessories
OMNIDIA/OMNIDIARP143
OMNIDT/OMNIDTRP 137
OMNIIR/OMNIIRP 141
OMNIUS/OMNIUSRP139
PIR10
PIR1000H145
Quick to Install System
RR1SPDTC 175
RRU 173
RWSOSCFL 121
RWSOSINC 125
RWSVSCFL 123
RWSVSINC 127
TC4
TC8
TCMODEM 71
TCPC
TCTIM
TD200
UVPP
UVPPM

Hubbell Building Automation



ON OFF

CORPORATE HEADQUARTERS

Hubbell Building Automation, Inc.

9601 Dessau Road, Building One, Suite 100 Austin, Texas 78754 USA

Direct Line	[512] 450.1100
Toll Free Number	[888] 698.3242
Fax Number: Orders Only	[512] 450.0864
Fax Number: General	[512] 450.1215
Toll Free Customer Service Fax Lin	e [877] 783.9201
Website	hubbell-automation.com

hubbell-automation.com