Passive Infrared Aisle (Long Range) Occupancy Sensor

Description

Specifically designed for long, relatively narrow spaces such as hallways and corridors, the OSWLR-I Occupancy Sensor provides long range and high sensitivity.

The OSWLR-I Occupancy Sensor utilizes a “long range” lens. This lens provides coverage up to 100 ft. when mounted 10 ft. above the floor. Can be mounted lower if needed.

The mounting base, provided with the sensor, allows quick and easy mounting in corners, on walls or on ceilings. The most common applications are factory storage areas, warehouse aisles and corridors.

Applications

- Cafeterias
- Hallways
- Loading docks
- Open offices
- Parking garages
- Storage rooms
- Warehouses
- Workspaces
- Vending rooms

Features

- Fast, simple installation: easy base mount, three wire connection (low voltage) and twist-and-lock detector attachment.
- Self-adjusting: internal microprocessor continually analyzes, evaluates and adjusts the infrared sensitivity and time delay. Performance is kept at a maximum and user complaints are eliminated.
- Multi-element, long range lens
- Flexible base mounting: supplied twist-and-lock base mount permits fast alignment. Supplied cover hides mounting hardware and wires. Can be used with raceways for hard surface installations. Adjustable canopy for wall or ceiling mount.
- Range & coverage: up to 100 ft. for gross body motion or forklift. Max. 33.2 feet wide.
- Custom off-white color matched for shaded ceiling/corner spaces and most common ceiling tiles

Features

- High motion sensitivity: the large lens area and multi-element lens design give excellent range and sensitivity
- Ambient light recognition: a light sensor prevents lights from turning on when the room is adequately lit by natural light
- Non-volatile memory: learned and adjusted settings saved in protected memory are not lost during power outages
- Timer setting feature: automatic—30sec-30min.Test mode—6sec with auto exit programming.
- Walk-through: provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space
- Uses OSPxx Series Power Pack: uses Class 2, 24 volt wiring, three wire connection (low voltage). Multiple sensors can control single or multiple power packs.
- Power base (OPB15) available for line voltage applications
- Device: high-impact housing and injection molded plastic. Color coded wire leads are 6” long (16.24 cm)
- Infrared Sensing: High sensitivity 9.8 micron detector dual element

How The OSWLR-I Automatically Adapts

Condition	Example	Self-Adaptive Reaction
Timer Left In Test Mode - The sensor remains in an 6 sec. test mode.	An installer accidentally leaves the sensor in the 6 sec. timer test mode and the lights may go off or on every 6 sec.	The sensor automatically resets the timer to 10 min after 15 min of test mode.
False-On - The sensor incorrectly turns the lights on.	The sensor detects movement in the corridor or hall way and the room lights turn on.	After an initial movement is sensed, if another mov ement is not sensed within the timer setting then the delayed off time setting is automatically reduced.
False-Off - The sensor incorrectly turns the lights off.	The sensor does not detect movement because an occupant sits virtually motionless at a desk and the lights turn off.	If motion is sensed within a short period after the lights go off, then the current delayed off-time setting is increased.

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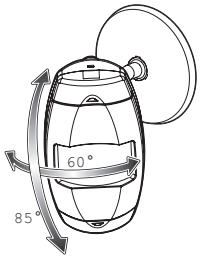
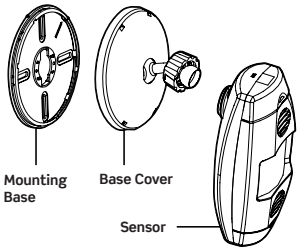
Adjustment Range

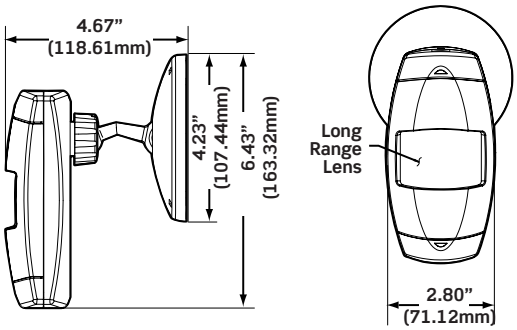


Mounting Bracket

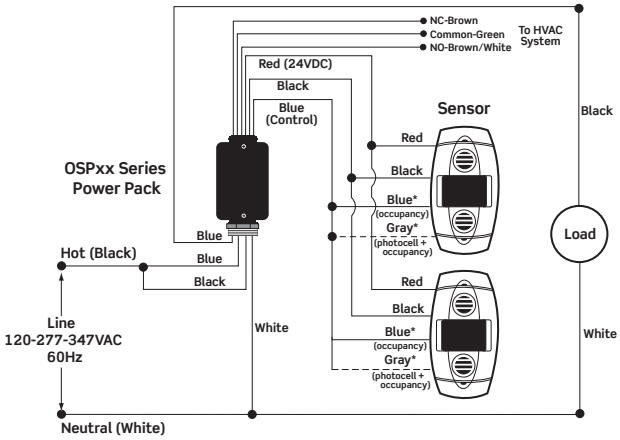


Switch		Switch Functions	Switch Settings
	Bank A	**OFF**	**ON**
A1	N/A		
A2	N/A		
A3	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Thru Disabled	Walk-Thru Enabled	Walk-Thru Disabled
	Bank B		
B1	Override to ON	Auto Mode	Lights forced ON
B2	Override to OFF	Auto Mode	Lights forced OFF
B3	Test Mode	OFF ON OFF	Enter/Exit Test Mode
B4	LED Disabled	LEDs Enabled	LEDs Disabled

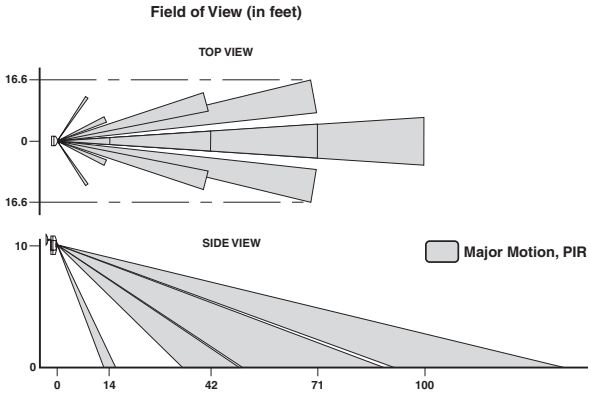
Dimensions



Wiring Diagram



Field of View



Specifications

Electrical	
Power Requirements	24 VDC, 15mA (.36W) from OSPxx Power Pack or OPB15 Power Base
Power Consumption	15mA Stand-by
Output	24 VDC active high logic control signal with short circuit protection
Controls	
Infrared Sensitivity	0 to 100%: red knob (factory setting: 75%)
Light Sensor	Blue knob 20 to 3,000 LUX. Factory set at 100% (Grey wire required)
Time Delay	30sec-30min; black knob (Factory setting: 10min)
Indicators	
Red LED	Infrared motion technology
Environmental	
Operating Temperature Range	32-104°F (0-40°C)
Relative Humidity	0-95% non-condensing, for indoor use only
Other	
Mounting Height	8-10 feet
Listings	IP42 Rated, CUL/US Certified
Energy Codes	Can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy sensing requirements
Warranty	Limited 5-year Warranty

Ordering Information

PIR Aisle Long Range Occupancy Sensor	
Cat. No.	**Description**
OSWLR-I0W	Passive Infrared Aisle (Long Range) Occupancy Sensor

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Visit our Website at: www.leviton.com/sensors

LES-G-7733D/G23-aa
REV JUL 2023