

Passive Infrared Aisle (Long Range) Occupancy Sensor with Isolated Relay



BASIC OPERATION

Specifically designed for long, relatively narrow spaces such as hallways and corridors, the OSWLR-RIW Occupancy Sensor provides high sensitivity and long range detection. Additionally, the sensor is designed with an isolated relay contact, enabling the sensor to interface with other systems (example: BAS, HVAC or any dry-contact capable device or system).

The OSWLR-RIW 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 at lower heights if needed).

The mounting base, provided with the sensor, allows quick and easy mounting in corners, on walls or on ceilings.

APPLICATIONS

- Cafeterias
- Warehouses
- Stairwells
- Hallways
- Narrow Aisleways
- Parking garages

FEATURES

- Isolated relay: supports HVAC or other Class 2 low voltage signals
- Supports both 24V AC/DC power supplies
- Fast, simple installation: easy base mount color coded wires 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 white color matched for most common daylight harvesting architecture
- High motion sensitivity: The large lens area and multi-element lens design give excellent range and sensitivity
- 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—4sec 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.
- 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-RIW AUTOMATICALLY ADAPTS

Condition	Example	Adaptive Reaction
Timer Left In Test Mode - The sensor remains in a 4 sec. test mode.	An installer accidentally leaves the sensor in the 4 sec. timer test mode and the lights may go off or on every 4 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 hallway and the room lights turn on.	After an initial movement is sensed, if another movement is not sensed within the timer setting, then the delayed off time setting is automatically reduced by 25%. Minimum time delay of 5 minutes.
False-Off - The sensor incorrectly turns the lights off.	The sensor does not detect movement because an occupant sits virtually motionless 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 by 50%. Maximum time delay is 30 minutes.

Leviton Manufacturing Co., Inc. Global Headquarters

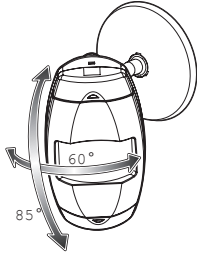
201 North Service Road, Melville, NY 11747-3138 tech line 800-824-3005 fax 800-832-9538

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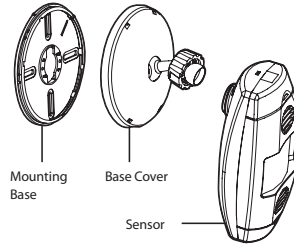
PRODUCT DATA



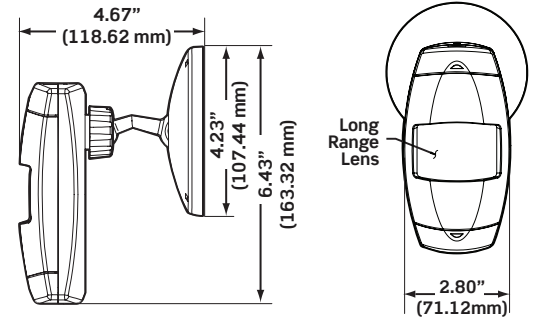
ADJUSTMENT RANGE



MOUNTING BRACKET



DIMENSIONS



DIP SWITCH SETTINGS			
SWITCH	BANK A	SWITCH FUNCTIONS	SWITCH SETTINGS
A1	N/A	OFF	ON
A2	N/A	N/A	N/A
A3	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Thru Disable	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 Disable	LEDs Enabled	LEDs Disabled

NOTE: Bold switch functions and switch settings indicate factory defaults

SPECIFICATIONS

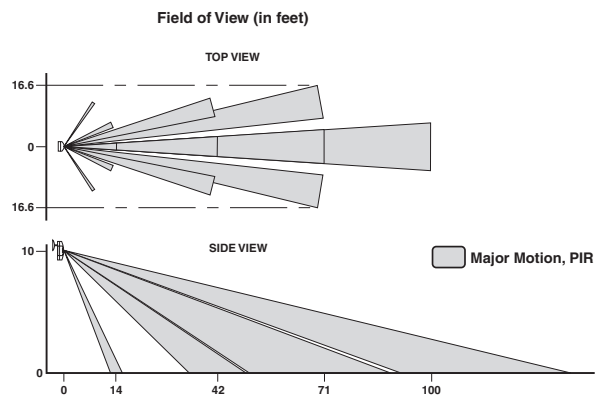
ELECTRICAL	
Power Requirements	15-28 VAC/DC, from OSPxx Power Pack or other Class 2 power supplies
Isolated Relay	1A @ 30VAC/VDC
Power Consumption	15mA AC, 30mA DC
Output	24 VDC active high logic control signal with short circuit protection
CONTROLS	
Infrared Sensitivity	0 to 100%; red knob (factory setting: 75%)
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	cUL/US Certified, can be used to comply with ASHRAE 90.1 and 2016 Title 24, Part 6 occupancy sensing requirements
Warranty	Limited Five-Year Warranty

ORDERING INFORMATION

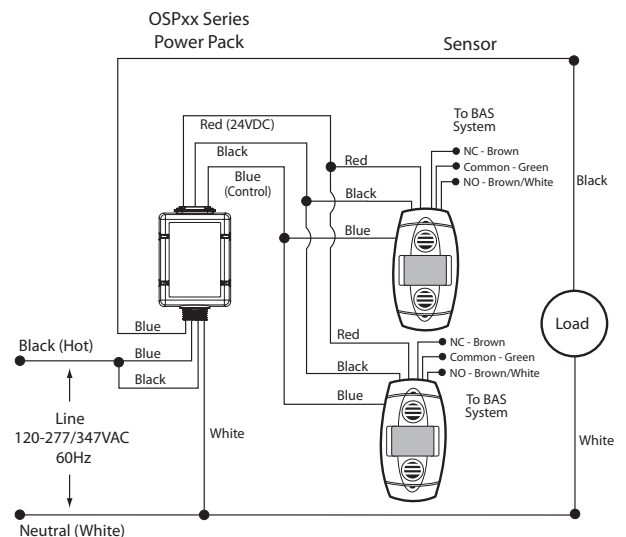
CAT NO.	DESCRIPTION
OSWLR-RIW	Passive Infrared Aisle (Long Range) Occupancy Sensor

NAFTA compliant and Made in USA models available with Isolated Relay

FIELD-OF-VIEW



PHYSICAL WIRING



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