

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
- Hallways
- Warehouses Narrow Aisleways
- Stairwells
- 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 attachmeny

HOW THE OSWLR-RIW AUTOMATICALLY ADAPTS

- 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

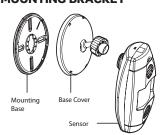
Condition	Example	Adaptive Reaction
Timer Left In Test Mode - The sensor remains in a 4 sec. test mode.	An installer accidentally leaves the sensor in the 4 sec. timer test mode and the lights may go off or on every 4 sec.	The sensor automatically resets the timer to 10 min after 15 min of test mode.
False-On - The sensor incorrectly turns the lights on.	The sensor detects movement in the corridor or hall way 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.



ADJUSTMENT RANGE



MOUNTING BRACKET



DIP SWITCH SETTINGS				
SWITCI	4	SWITCH FUNCTIONS	SWITCH SETTINGS	
	BANK A	OFF	ON	
A1	N/A	N/A	N/A	
A2	N/A	N/A	N/A	
А3	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	
В3	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

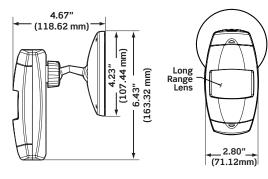
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ELECTRICAL		
Power Requirements	15-28 VAC/DC, from OSPxx Power Pack or other Class 2 power supplies	
Isolated Relay	1A @ 30VAC/VDC	
Power Consumption	15mA AC, 30mA DC	
Output	24 VDC active high logic control signal with short circuit protection	
CONTROLS		
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	
Energy Codes	Can be used to comply with IECC, ASHRAE 90.1, and 2019 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	

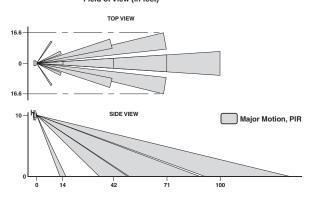
Made in USA with globally sourced components and NAFTA compliant models available with Isolated Relay.

DIMENSIONS

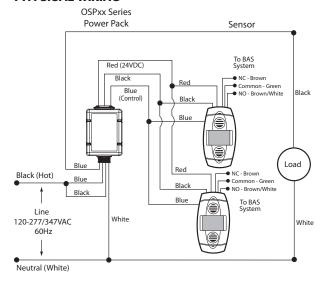


FIELD-OF-VIEW

Field of View (in feet)



PHYSICAL WIRING



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