PRODUCT DATA

Passive Infrared Wideview Occupancy Sensor with Isolated Relay



BASIC OPERATION

The OSWWV-RIW is a low-voltage infrared occupancy sensor that works with the OSPxx Series power pack, or other Class 2 power supplies, to automatically control lighting. By sensing moving infrared heat sources, the sensor automatically turns the lights ON during occupancy, maintains lights-ON and, after a time delay, turns the lights OFF when the space is vacated.

The sensor uses a wide view (110 degrees) lens which detects large body motions over 50 ft. away. Smaller motions such as hand movement can be detected up to 34 feet. 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 mounting base, provided with the sensor, allows quick and easy mounting in corners, on walls or on ceilings using the "twist-and-lock" feature.

APPLICATIONS

- Cafeterias
 Parking garages
- Hallways
 Large open areas
- Warehouses
 Conference rooms

FEATURES

- Isolated Relay: Supports HVAC or other Class 2 low voltage signals.
- Supports both 24V AC/DC power supplies.

HOW THE OSWWV-RIW AUTOMATICALLY ADAPTS

- Fast, Simple Installation: Easy base mount, color coded wires and twist-lock sensor attachment.
- 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.
- Wide Coverage: Over 2,500 sq. ft. of coverage at 8 foot ceiling height with 110 degree aperture.
- Custom white color matched for most common daylight harvesting architecture.
- 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.
- 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.
- High Motion Sensitivity: The large lens area and multi-element lens design give excellent range and sensitivity.
- Infrared Sensing: High sensitivity 9.8 micron sensor dual element, semiconductor type.
- Lens: 110° aperture, lens opening 2.2" x 1.47", 36 elements (72 zones) small motion range 31 ft, large motion 68 ft.
- Device: High-impact, injection molded plastic. Color coded wire leads are 6" long (16.24 cm).

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.

Leviton Manufacturing Co., Inc. Global Headquarters

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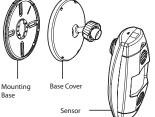
PRODUCT DATA

LEVITO

ADJUSTMENT RANGE



MOUNTING BRACKET



DIP SWITCH SETTINGS

SWITCH SWITCH FUNCTIONS SWITCH SETTINGS			
50010	BANK A	OFF	ON
A1	N/A	N/A	N/A
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

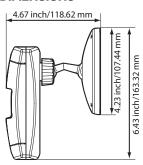
SPECIFICATIONS

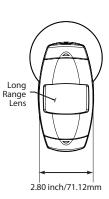
ELECTRICAL		
Power Requirements	15-28 VAC/DC, from OSPxx Power Pack or other Class 2 power supplies	
Isolated Relay	1A @ 30VAC/VDC	
Power Consumption	15mA DC, 30mA AC	
Output	24 VDC active high logic control signal with short circuit protection.	
CONTROLS		
Infrared Sensitivity	0 to 100%: red knob (factory setting: 75%)	
Time Delay	30sec-30min; black knob (Factory setting: 10min)	
INDICATORS		
Red LED	Infrared motion technology	
ENVIRONMENTAL		
Operating Temperature Range	32°F to 104°F (o°C to 40°C)	
Relative Humidity	0% to 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

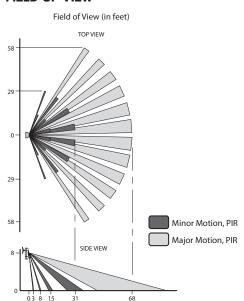
CAT NO.	DESCRIPTION	
OSWWV-RIW	Passive Infrared Wideview Occupancy Sensor	

DIMENSIONS

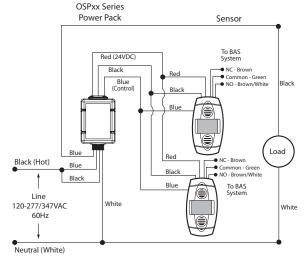




FIELD-OF-VIEW



PHYSICAL WIRING



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

Leviton Manufacturing Co., Inc. Global Headquarters

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OSWWV-RIW