LEVITON

Passive Infrared Aisle (High Bay) Occupancy Sensor with Isolated Relay

BASIC OPERATION

Specifically designed for long, relatively narrow spaces such as warehouse aisles and corridors, the OSWHB-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 OSWHB-RIW Occupancy Sensor utilizes a "high bay" lens. This lens provides coverage up to 55 ft. when mounted 30 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
- Parking garages
- Warehouses
- High ceiling places
- Hallways
- Stairwells
- Narrow Aisleways

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.
- 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 55 ft. for gross body motion or forklift. Max. 7 feet wide.
- Multi-element, high bay lens for mounting up to 30 feet.
- 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.
- High Motion Sensitivity: Large lens area and multi-element lens design gives excellent range and sensitivity.
- Custom white color matched for most common daylight harvesting architecture.
- 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 OSWHB-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
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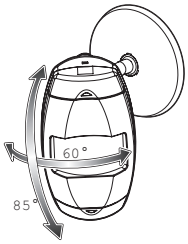
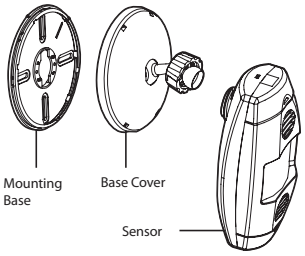
PRODUCT DATA

OSWHB-RIW

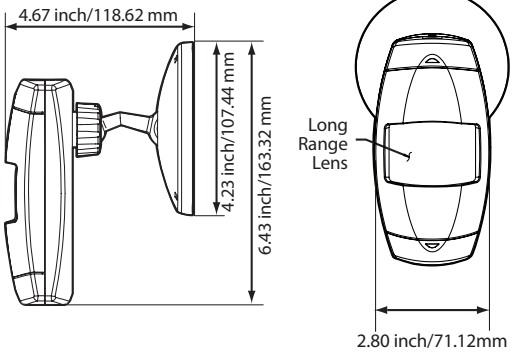
ADJUSTMENT RANGE



MOUNTING BRACKET



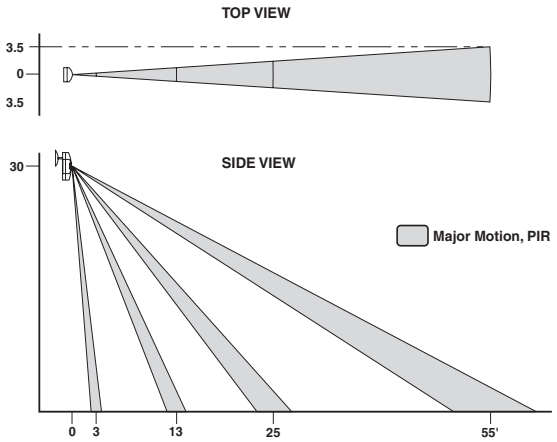
DIMENSIONS



DIP SWITCH SETTINGS			
SWITCH		**SWITCH FUNCTIONS**	**SWITCH SETTINGS**
	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

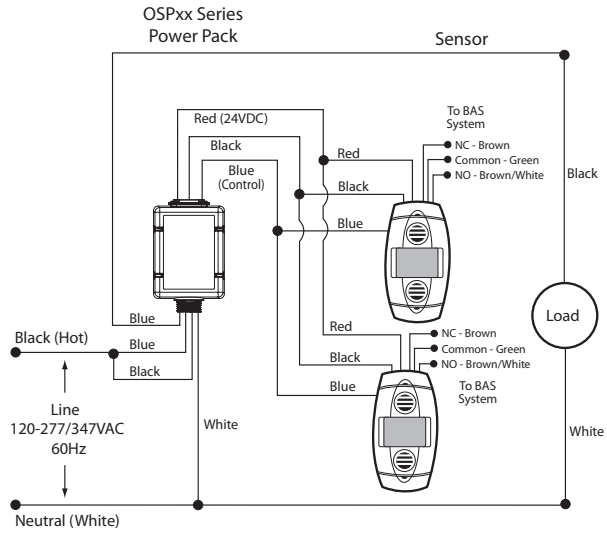
FIELD-OF-VIEW



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°F to 104°F (0°C to 40°C)
Relative Humidity	0% to 95% non-condensing, for indoor use only
OTHER	
Mounting Height	Up to 30 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

PHYSICAL WIRING



ORDERING INFORMATION

CAT NO.	DESCRIPTION
OSWHB-RIW	Infrared Aisle (High Bay) Occupancy Sensor

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

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

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