LEVITON®

PIR Fixture Mount High Bay Sensor with Integrated Light Sensor and Three Interchangeable Lenses

Available as a dual relay, alternating relay, low voltage or cold storage model

OSFHP-IxW

OSFHD-xTW
with Dual Relay

OSFHD-xAW with
Alternating Relay

- Integrated rotating adjustable light sensor
- 24 hour auto-calibration for set-it and forget-it
- Dual relays for bi-level control
- Alternating relay software for increased lamp life
- Interchangeable 360° high bay, low bay and aisle lens included
- Adjustable time delay (no power required)
- 42" pre-stripped color-coded wire leads
- Quicksnap feature for easy installation
- H.I.S. (High Inrush Stability) Technology
  - Zero crossing circuitry
  - Robust mechanical latching relay
- Non-volatile memory, device returns to its last state during power interruption
- LED indicator light blinks when sensor detects motion, visible from long distance

BASIC OPERATION

Whether factory or field installed, new installation or retrofit, Leviton fixture mounted sensors provide fast, easy installation and immediate energy savings by automatically activating lighting only during periods of occupancy. Reliable passive infrared (PIR) technology detects occupancy, and the variable time delay - up to 30 minutes - is user accessible without power, tools or disassembly, and allows the ideal setting based on application needs. Included with the sensor are lenses for high-bay, low-bay and aisle mounting, allowing one unit to cover a variety of applications. The innovative Autocal feature performs an automatic daylight level calibration. Once calibrated, the sensor requires no further adjustment and immediately enters daylight harvesting mode, actively switching the connected fixture load ON and OFF in response to occupancy and available natural light maximizing energy savings through efficient light harvesting.

- The OSFHP includes an active daylight sensor and controls a single load (also available in a 24V Low Voltage Model)
- The OSFHD-xTW features dual relays with independent time delay circuits, in addition to active daylight sensor
- The OSFHD-xAW features dual alternating relays (daylight sensor not included on these models), to maintain optimal lamp life in fixtures designed to keep a portion of the lamps on at all times

Cold storage and 480V models are available.

INSTALLATION

The OSFHP and OSFHD installs directly to an industrial fluorescent fixture or an electrical junction box through a standard 1/2" knockout using the provided lock-nut. Wiring is connected inside the fixture body. For deep body fixtures, the OSFLO or OSFOA accessory installs into the fixture 1/2" knockout using the provided lock-nut. The OSFHP and OSFHD sensor is installed in one of three, 1/2" knockouts positioning the OSFHU at the correct field-of-view position flush or below the fixture reflector assembly. Wiring is routed through the OSFLO or OSFOA to the fixture body for wiring.

OSFHP • OSFHD

Leviton Mfg. Co., Inc. Lighting Management Systems
201 N. Service Rd. Melville, NY 11747-3138 Tech Line: 1-800-824-3005 Fax: 1-800-832-9538 www.leviton.com/lms

PRODUCT DATA

FEATURES

Rotating Light Sensor: Optimal for best performance in locating light measurements (up, down and side lighting).

Auto Calibration: Set to auto-calibration, light sensor measures lowest light level of facility with all lights ON for 24 hours to determine the Daylighting Set Point.

Manual Calibration: Optimize energy savings and operation by manually configuring the Daylighting Set Point.

Performance Daylighting: Enhanced design algorithms to assure lights will not cycle during cloud cover, or varying light levels. (No more daylight = load turn OFF in +/- 5 minutes, Daylight returns = load will turn ON +/- 1 minute).

Fast and Simple Setting: The OSFHP and OSFHD does not require power to set the time delay saving valuable time during installation.
- Load 1 = 30s - 30m
- Load 2 = zero - infinity (starts after load 1 expires)

Fast and Simple Testing: The OSFHP and OSFHD will "instant on" within 5 seconds. Upon initial power, relay is closed enabling labor savings testing in seconds.

Power Interruption State: For energy savings and safety, if power is lost to device, device will return to last known state.

Fast, Simple Installation: The OSFHP and OSFHD sensor easily installs on individual fixtures using standard 1/2" knockouts and the quicksnap feature which eliminates the time to tighten the lock-nut. The 42" wire leads reduce time and materials for connecting the ballast. Simply make the electrical connections inside the ballast compartment, install the appropriate adjustable lens assembly included, and the sensor is ready. Masking is provided for fine tuning the coverage pattern to specific needs. Ideal for use in warehouses, manufacturing, cold storage, and other high ceilings.

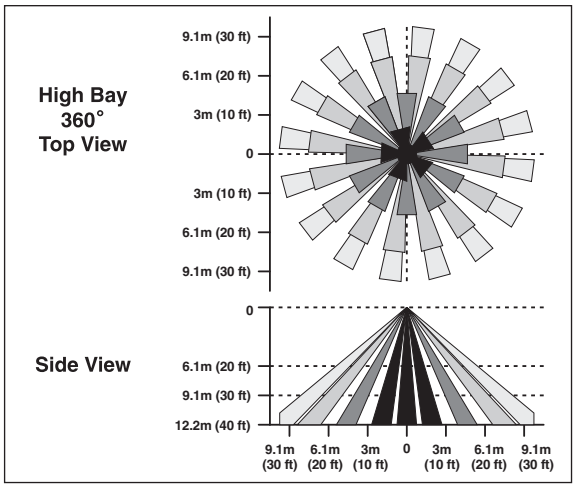
Zero Crossing Circuitry: Relay uses a zero crossing circuitry to provide reliable, long-life operation.

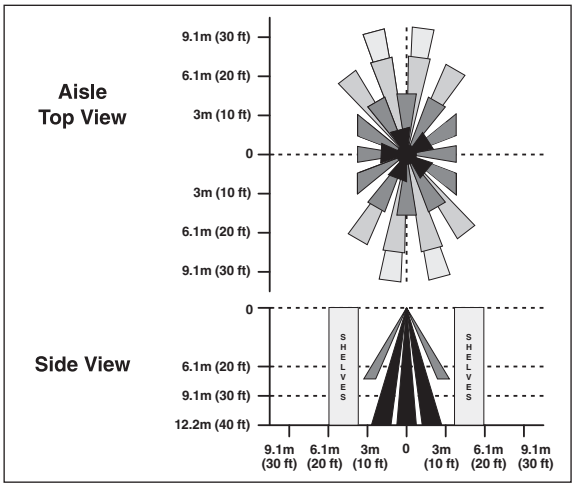
Range and Coverage: The 360° high-bay PIR lens provides a 2:1 spacing to mounting height coverage under 25 ft. mounting and a 1.5:1 for heights up to 40 ft. mounting. The 360° low-bay lens provides 2:1 spacing to mounting height coverage for 8 ft. to 20 ft. mounting. The aisle lens is designed to provide detection of 60 ft. long by 20 ft. wide for heights up to 40 ft. mounting.

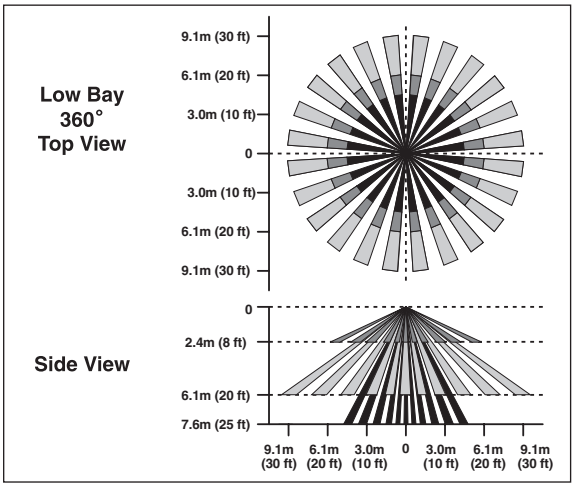
LED: Super bright green LED indicates occupancy detection and can be seen at 40 feet.

False Detection Protection: Energy saving technology is designed into the OSFHP and OSFHD to assure your lights are ON only when needed.

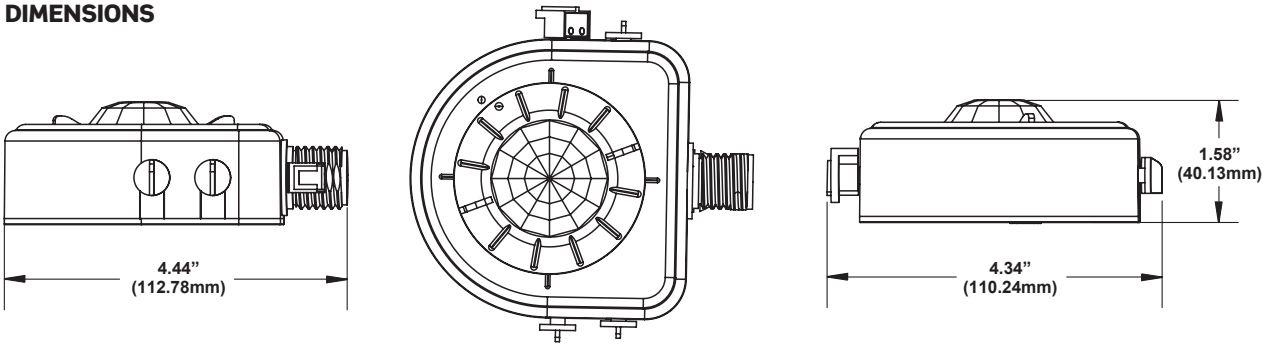
FIELD-OF-VIEW



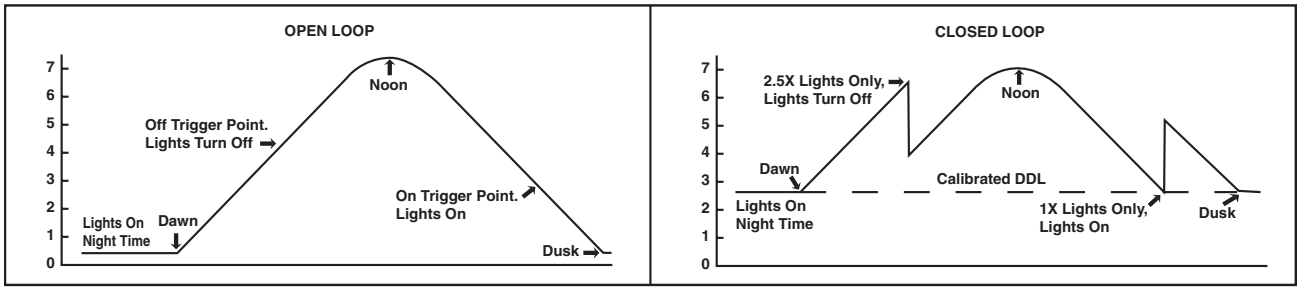


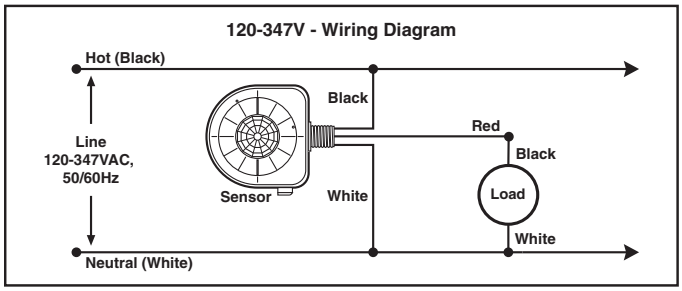


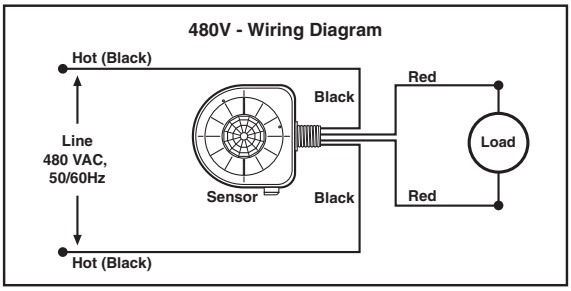
DIMENSIONS

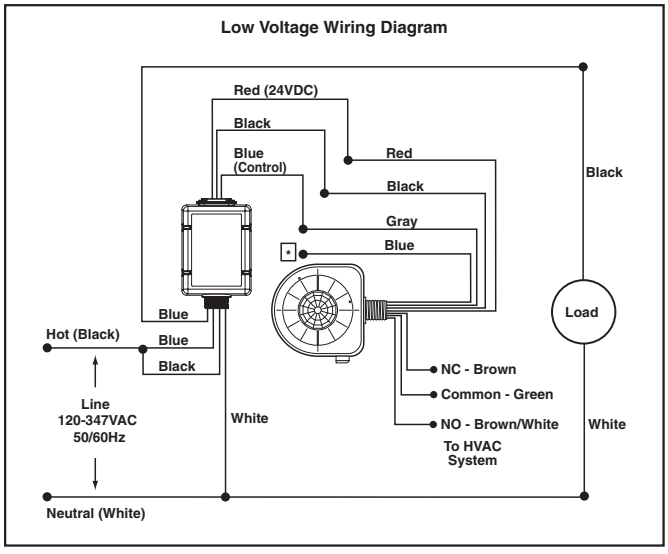


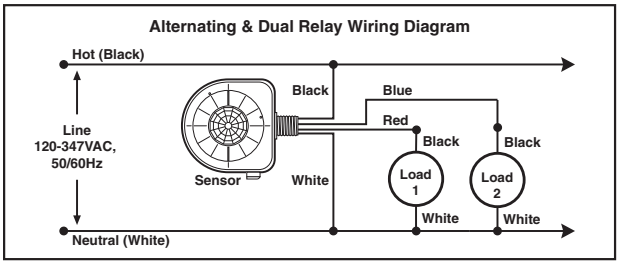
WIRING DIAGRAMS











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SPECIFICATIONS

	120-347V and 480V Models	Low Voltage 24V Models (-ILW)
ELECTRICAL		
Input Voltage	120-230-277-347VAC; 240/480VAC (-I4W models)	24VAC/VDC
Operational Frequencies	50/60Hz	
Load Rating	Fluorescent Ballasts: 800VA @ 120VAC Ballast 1000VA @ 230VAC Ballast 1200VA @ 277VAC Ballast 1500VA @ 347VAC Ballast 2000VA @ 480VAC Ballast Motor: 1/4 HP Load @ 120V Compatible with electronic and magnetic ballasts, electronic and magnetic low-voltage transformers.	Input: 20mA Output: 120mA HVAC: 1A, 30VDC
Minimum Load	No Requirement	
Output Channels	Latching Relay	HVAC Form C N/O, N/C
Time Delay	Load 1: 30s - 30m Load 2: zero - infinity (starts after Load 1 expires)	
Wire Designation	Line-Black, Load-Red, Neutral-White	Line-Black, Load-Red, Neutral-White; OCC=Blue, PH=Gray, HVAC=Brown
ENVIRONMENTAL		
Operating Temperature Range	14° F to 160° F (-10° C to 71° C)	
Cold Storage Temperature Range	-40° F to 160° F (-40° C to 71° C)	
Relative Humidity	0% to 90% non-condensing	
OTHER		
Agency Listings	UL 916, CSA 22.2 No. 205 M1983, FCC Certified, Title 24 Compliant	
Warranty	Limited 5-Year	

ORDERING INFORMATION

CAT. NO. *	DESCRIPTION
OSFHP-ITW	PIR Fixture Mount High Bay Sensor with Light Sensor, 120-347V
OSFHP-I4W	PIR Fixture Mount High Bay Sensor with Light Sensor, 480V
OSFHP-ILW	PIR Fixture Mount High Bay Sensor with Light Sensor, 24V
OSFHD-ITW	PIR Fixture Mount High Bay Sensor with Light Sensor, Dual Relay
OSFHD-CTW	PIR Fixture Mount High Bay Sensor with Light Sensor, Dual Relay, Cold Storage
OSFHD-IAW	PIR Fixture Mount High Bay Sensor with Light Sensor, Alternating Relay
OSFHD-CAW	PIR Fixture Mount High Bay Sensor with Light Sensor, Alternating Relay, Cold Storage
OSFOA-ooW	Offset Adapter Accessory for OSFHU, 3 Position, White
OSFLO-ooW	Offset Adapter Accessory for OSFHU, 1 Position, White
OSFCG	Protective Cage for Fixture Mount Sensors

* All OSFHP and OSFHD models ship with three interchangeable lenses. NAFTA and Made in USA models available.

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