High Bay/low Bay Passive Infrared Occupancy Sensor and Offset Adapter

Cat. No. OSFHU-4W (Sensor)
Cat. No. OSFHU-C4W (Cold Storage Sensor)
Cat. No. OSF0A-0W (Adapter, sold separately)
Cat. No. OSF0L-0W (Adapter, sold separately)
Cat. No. OSFIA-4W (Sensor with Adapter mounted)
Cat. No. OSFC4A-4W (Cold Storage Sensor with Adapter mounted)

FEATURES

- Fixture or electrical box mounted Passive Infrared Occupancy Sensor
- 360 degree lens for field-of-view (included):
  - Blue Lens = 8 to 25 meter mounting height
  - White Lens = 20 to 40 meter mounting height
- 21*5-pair stranded connector wires
- Asia: Coverage: add included aisle mask to either lens option
- Adjustable Time Delay
- LED indicator light blinks when sensor detects motion
- Optional peel and stick mask kit
- Optimal power and simplicity

DESCRIPTION

Leviton's High Bay Occupancy Sensors, Cat. No. OSFHU4W and OSFHU-C4W (cold storage), are specifically designed for high mounted areas such as warehouses, manufacturing and other high ceiling applications. The OSFHU-4W installs directly to an industrial luminaire or an electrical junction box. It is a self-contained sensor and relay that detects motion using the passive infrared (PIR) to sense sources (such as a person entering a room) within its field-of-view (monitored space) and automatically switches lights ON. The controlled lights will turn OFF when motion is detected and the scheduled time-delay has expired. The OSFHU-C4W is supplied with two interchangeable lens rings that allows the user to select between a 360 degree High Bay/Low Bay pattern or an aisle pattern.

WARNING:

TO OPEN THE ADAPTER, USE A SMALL, FLAT BLADE SCREW DRIVER AND CAREFULLY INSERT INTO SLOTS AND PUSH TABS DOWN WHILE PULLING THE TWO HALVES APART.

ALLOW APPROXIMATELY 1 MINUTE FOR CHARGE-UP. IF THE LIGHTS TURN ON AND THE LED BLINKS WHEN A HAND IS WAVED IN FRONT OF THE LENS, THEN THE SENSOR WAS INSTALLED PROPERLY. IF THE OPERATION IS DIFFERENT, REFER TO THE TROUBLESHOOTING SECTION.

FOR CANADA ONLY

FOR WARRANTY INFORMATION AND/OR PRODUCT RETURNS, RESIDENTS OF CANADA SHOULD CONTACT LEVITON IN WRITING AT LEVITON MANUFACTURING CANADA LTD. TO THE ATTENTION OF THE QUALITY ASSURANCE DEPARTMENT, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

INSTALLATION INSTRUCTIONS

FOR TECHNICAL ASSISTANCE CALL:
1-800-424-3005 (U.S. Only)
www.leviton.com

PK-92658-10-00-SC

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton’s only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-424-3005. This warranty excludes and limits Leviton’s liability to such repair or replacement, at its option. If your product is installed in an improper or an improper environment, overloaded, misused, abused, altered, not used under normal operating conditions or not in accordance with any labels or instructions. There are no other或 implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years.

WARNING:

NEVER ATTEMPT TO DISASSEMBLE OR REPAIR. CLEAN OUTER SURFACE WITH A DAMP CLOTH ONLY.

INSTALLATION

1. DISCONNECT POWER WHEN SERVICING LUMINAIRE OR CHANGING BULBS.
2. USE THIS DEVICE WITH COPPER OR COPPER CLAD WIRE ONLY.
3. DO NOT ATTEMPT TO INSTALL OR REPAIR, AT ITS OPTION.

TO INSTALL:

NOTE: The Sensor is supplied with two lens trim rings. The 360 degree High Bay lens (white color trim ring) is installed at the factory with the Low Bay lens (blue color trim ring) in the carton. Choose the correct lens for your fixture height location and add the blue aisle mask if desiring to block detection outside of the aisle. See below for changing lens trim ring. The OSFHU-4W Sensor mounts in a 1/2" knockout hole on the end of a luminaire or an electrical box. The Sensor’s field-of-view may be partially obstructed by the luminaire housing (refer to Figure 1A). At higher mounting heights, the outer beams are not used as long as the bottom of the sensor is mounted within 1" from the bottom of the luminaire. The field-of-view will not be affected (refer to Figure 1B).

ADOPTER NOTE:

For deep burred luminaires or to clear other obstructions use Leviton’s OSF0A-0W Adapter (refer to Figure 2A). The Adapter is designed to provide multiple mounting positions to accommodate different mounting heights for optimum sensor positioning (refer to Figure 2B). Provided is a keyed, threaded snap-in nipple that holds the Adapter in place while tightening the provided lock-nut. If the Adapter is needed, go to ADAPTOR INSTALLATION section. The OSFLO is a single height position adapter with a quick install snap in fitting without a lock nut (refer to Figure 2B).
1. Position the adapter half with the insert nipple to the end of the luminaire or electrical box to determine if sensor will be positioned correctly for optimum coverage.

2. If appropriate position for coverage, insert the snap fitting into the knockout of the luminaire or electrical box (if added depth is needed for coverage, use the OSFLOA with multiple positions).

3. Remove the knockout from the sensor and insert the wire leads through the mounting hole of the other half of the adapter. Slide knob over wire leads and thread onto threaded sensor nipple and tighten so that sensor does not move. Align sensor so that it is parallel to the bottom of the luminaire or electrical box.

4. Feed the sensor wire through the adapter half mounted on the luminaire or electrical box and into the wire access area.

5. Snap the adapter half with the sensor attached to the adapter half on the luminaire or electrical box by aligning the snap fittings and pushing firmly together.

6. Connect per Wiring Diagram as follows: BLACK leads to LINE (Hot), RED leads to LOAD.

7. Restore power at circuit breaker or fuse.

**NOTE:** Allow approximately 1 minute for charge-up. If the lights turn ON and the LED blinks when

**7.6m (25 ft)**

**6.1m (20 ft)**

**3.0m (10 ft)**

**0**

6.1m (20 ft)

3m (10 ft)

9.1m (30 ft)

12.2m (40 ft)

**Figure 1A**

**INCORRECT**

Sensor mounted too high

Outer beams are obstructed

Field-of-view is limited

**Figure 1B**

**CORRECT**

Sensor mounted within 1" of bottom

No obstruction

Optimum field-of-view

**Figure 2A**

Threaded snap in nipple attaches to 1/2" luminaire or electrical box trade-size knockout holes

**Figure 2B**

Insert nipple attaches to 1/2" luminaire or electrical box trade-size knockout holes

**Figure 3**

Sensor

Inside of Luminaire or Electrical Box

Wires from sensor to luminaire or electrical box are fed through adapter

**Figure 4**

White High Bay 360° Top View

Tightening Lock-Nut

Stopping Lock-Nut

**Figure 5**

Aisle Mask Top View

Line up dots

Pull up on tab to remove lens (High Bay or Low Bay)

Insert aisle mask into lens assembly (if applicable)

**Figure 7A**

Wiring Diagram

Line 480 VAC, 50-60Hz

Load

Hot (Black)

Black

White

Red

**Figure 7B**

Line up dots and turn to set lens

Position aisle mask for application

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