OSFLA High-Bay Occupancy Sensor with Adapter

BASIC OPERATION

THE OSFLA is specifically designed and assembled to reduce the amount of labor required during the fixture assembly process and at the time of installation. The OSFLA includes the OSFHU PIR High-Bay Sensor, OSFLO mounting bracket with quick-snap fasteners and two interchangeable lenses for use in either a 360° high-bay or 360° low-bay general area.

The OSFLA provides reliable coverage from 8 to 40 ft. mounting heights in high ceiling locations such as warehouses, manufacturing, production and industrial areas. The OSFLA is also available in a model for cold storage applications with temperatures as low as -40° F.

The OSFLA maximizes energy savings, incorporating false detection algorithms to eliminate false ONs by nuisance tripping or background environmental conditions. The sensor also optimizes energy savings and safety concerns during power loss scenarios by assuring a return to the last known state of operation.

The OSFHU uses Passive Infrared Technology (PIR) to sense occupancy by comparing the infrared energy from an object in motion and the background space. PIR sensors minimize false ON from background environmental conditions such as air movement to provide reliable detection of line-of-sight motion.

INSTALLATION

The OSFLA comes pre-wired through the OSFLO offset adapter bracket. The provided 42” wire lead is then routed to the fixture through the desired 1/2” knockout. The adapter bracket includes a quick-snap 1/2” nipple to fasten into the fixture with no required tools or time spent. Simply cut the 42” wire lead to the desired length to reach the ballast within the fixture and make final connections. To expedite testing during assembly, the OSFLA is designed with an instant-start feature on the initial connection to power. The fixture-with-sensor assembly is then complete and shipped to the installations site. On site, an electrician will select the correct lens, set the time delay and install the fixture in one complete ascent up a ladder or lift.

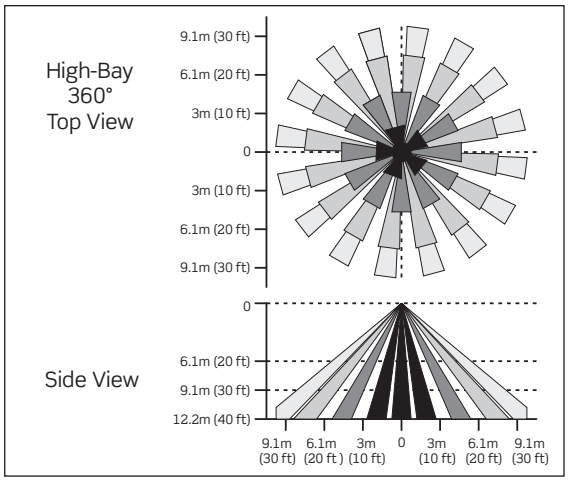
Leviton Mfg. Co., Inc. Lighting & Energy Solutions
201 N. Service Rd. Melville, NY 11747-3138 Tech Line: 1-800-824-3005 Fax: 1-800-832-9538 www.leviton.com/les

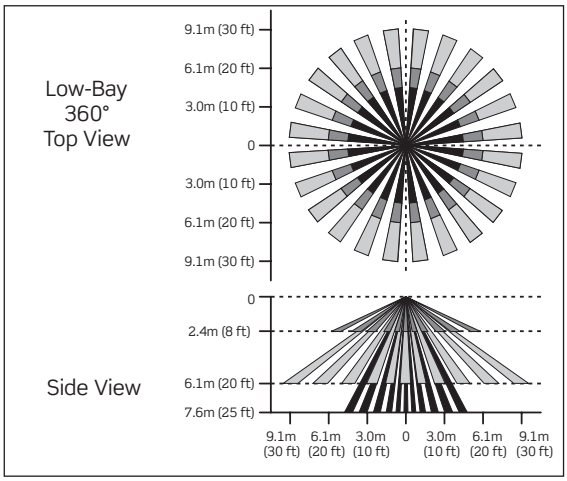
PRODUCT DATA

FEATURES

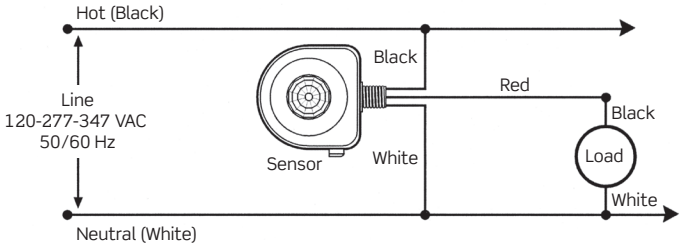
- **Quicksnap:** built into the 1/2" nipple, this locking mechanism allows for the fastest and easiest mounting not requiring a threaded lock-nut
- **Reduce time and materials:** easily reach the ballast at either end of the fixture without requiring more wire or connectors with the included 42" wire leads
- **Fast, easy time delay setting:** can be set at any time without requiring power to the sensor; time delay is variable from 30s-20m
- **Instantly verify fixture operation and wiring connections:** "instant ON" closing relay fires lamps in under 5 seconds
- **High Inrush Stability (H.I.S.) Technology:**
  - Zero crossing circuitry optimizes relay operation for reliable, long-life operation
  - Robust mechanical latching relay is durable for all load types
- **Auto temperature calibration:** automatically adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field-of-view
- **Return to last state:** for safety and energy savings, the OSFLA contains a latching relay so that in the event power is lost to the device, the device will return to the last known state of the relay
- **False detection intelligence:** for increased energy savings and to mitigate nuisance tripping, the super bright LED indicates advanced detection has been activated and the lights will only turn ON when true occupancy has been determined

FIELD-OF-VIEW

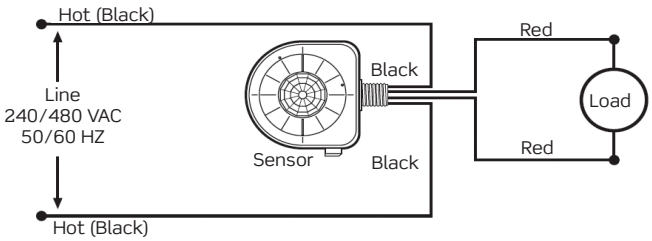


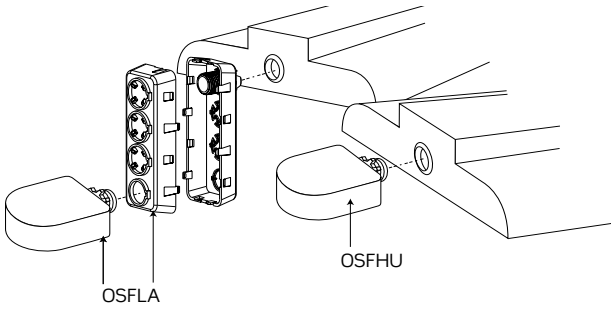


OSFLA Wiring Diagram



OSFLA (480V) Wiring Diagram





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LEVITON

SPECIFICATIONS

ELECTRICAL	
Input Voltage	120-230-277-347VAC; 240/480VAC (-I4W models)
Operational Frequencies	50/60 Hz
Load Rating	800VA @ 120VAC Ballast 1200VA @ 277VAC Ballast 1500VA @ 347VAC Ballast 2000VA @ 480VAC Ballast Motor: 1/4 HP Load @ 120V
Standby Power Consumption	120V – 130mW – .13W 277V – 450mW – .45W 347V – 460mW – .46W
Time Delay	30 seconds-20 minutes (factory set to 30 sec – no power required to set)
Wire Designation	-ITW/-CTW models: Line-Black, Load-Red, Neutral-White -I4W/-C4W models: Line-Black, Load-Red, Load-Red
ENVIRONMENTAL	
Operating Temperature Range	14-160° F (-10-71° C)
Cold Storage Operating Temperature Range	-40-160° F (-40-71° C)
Storage Temperature Range	-14-160° F (-25-71° C)
Relative Humidity	20% to 90% non-condensing
PHYSICAL	
Dimensions	OSFHU: 3.50" H x 3.50" W x 1.25" D OSFLO: 4.325" H x 2.00" W x 2.00" D
Construction	High-impact, injection molded plastic housing
Color	White
OTHER	
Agency Listings	UL and CUL Listed (OSFHU models), Title 20/24 Compliant
Warranty	Limited 5-Year

ORDERING INFORMATION

CAT. NO.	DESCRIPTION
OSFLA-ITW	PIR Fixture Mount High Bay Sensor with 2 Interchangeable Lenses, White
OSFLA-CTW	PIR Fixture Mount High Bay Sensor with 2 Interchangeable Lenses for Cold Storage, White
OSFLA-I4W	PIR Fixture Mount High Bay Sensor with 2 Interchangeable Lenses, 480V, No Neutral, White
OSFLA-C4W	PIR Fixture Mount High Bay Sensor with 2 Interchangeable Lenses for Cold Storage, 480V, No Neutral, White

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