

# OSFHU Passive Infrared Fixture Mount High-Bay Occupancy Sensor



OSFHU

## BASIC OPERATION

The OSFHU Passive Infrared (PIR) Fixture Mount High-Bay Occupancy Sensor is specifically designed for high mounted areas such as warehouses, manufacturing and other high ceiling applications. The OSFHU installs directly to an industrial fluorescent luminaire or an electrical junction box. It is a self-contained sensor and relay that turns individual light fixtures ON or OFF based on occupancy in the detection zone. It comes with two interchangeable lenses for use in either a 360° high-bay or 360° low-bay general area or a mask for aisle way. The OSFHU provides reliable coverage up to 40 ft. mounting heights. The OSFHU is also available in a model for cold storage applications with temperatures as low as -40° F (-40°C).

To improve the field-of-view for deep body fixtures, a separate offset adapter accessory (OSFLO or OSFOA) can be used to position the sensor below the fixture body. The adapter simply snaps into a 1/2" knockout on the end of the industrial fixture to attach the sensor. The OSFHU and OSFLO/OSFOA provides the most labor savings available with quick snap, 21" wire leads, and no power required to configure.

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

## INSTALLATION

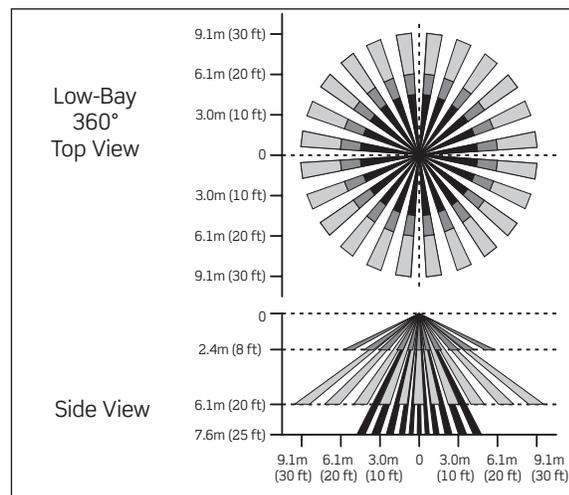
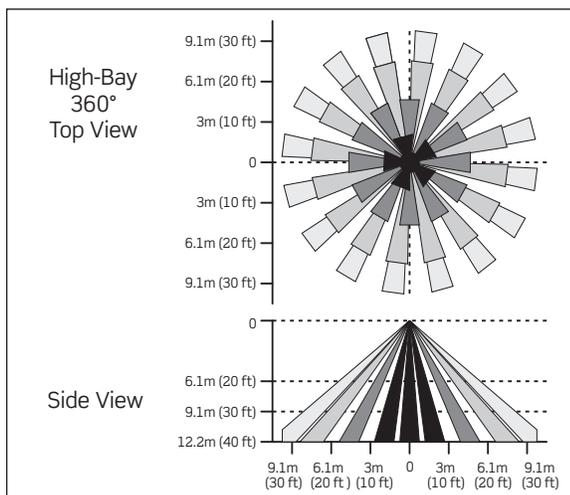
The OSFHU mounts directly to an industrial fluorescent fixture or an electrical junction box through a standard 1/2" knockout using the two provided lock-nuts. Wiring is connected inside the fixture body. For deep body fixtures, the OSFLO or OSFOA accessory installs into the fixture 1/2" knockout using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

## PRODUCT DATA

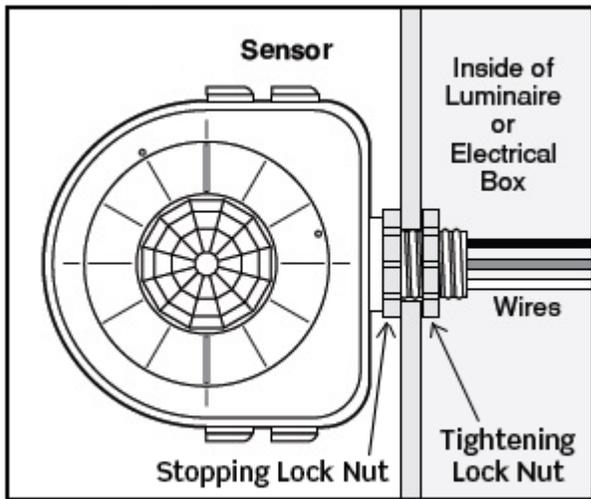
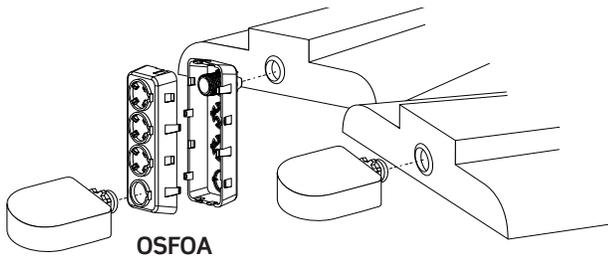
### FEATURES

- **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 21" 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 OSFHU 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

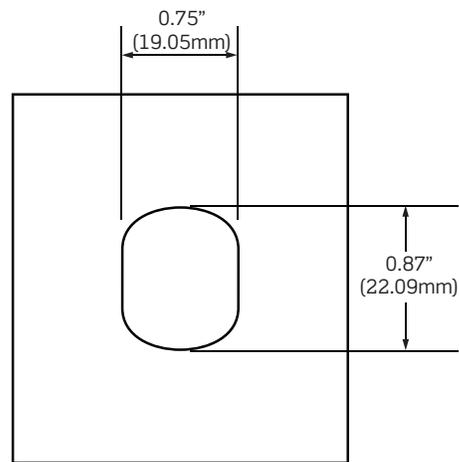
### FIELD-OF-VIEW



**INSTALLATION**

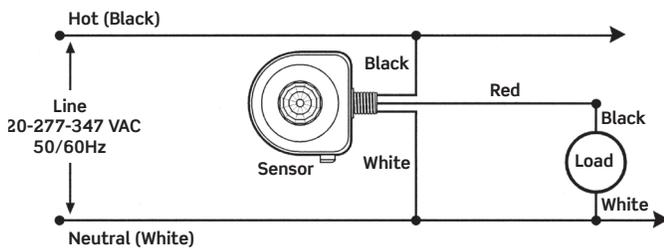


**Sheet Metal\* Punch Dimensions for Optional Snap-In Installation**

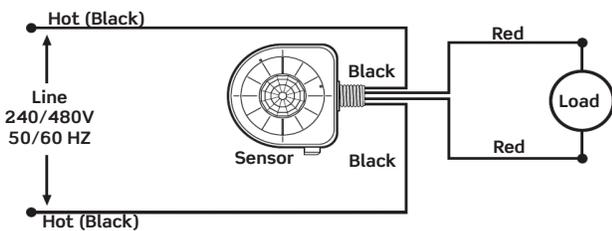


\*18-22 Gauge Steel

**OSFHU Wiring Diagram**



**OSFHU (480V) Wiring Diagram**



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**SPECIFICATIONS**

<b>ELECTRICAL</b>	
<b>Input Voltage</b>	120-230-277-347VAC; 240/480VAC (-I4W models)
<b>Torque</b>	<b>TIGHTEN</b> to 4 ft-lbs of torque <b>NEVER USE MORE THAN</b> 5 ft-lbs of torque
<b>Operational Frequencies</b>	50/60 Hz
<b>Load Rating</b>	800VA @ 120VAC Ballast 1200VA @ 277VAC Ballast 1500VA @ 347VAC Ballast 2000VA @ 480VAC Ballast Motor: 1/4 HP Load @ 120V
<b>Standby Power Consumption</b>	120V - 130mW - .13W 277V - 450mW - .45W 347V - 460mW - .46W
<b>Time Delay</b>	30 seconds-20 minutes (factory set to 30 sec- no power required to set)
<b>Wire Designation</b>	-ITW/-CTW models: Line-Black, Load-Red, Neutral-White -I4W/-C4W models: Line-Black, Load-Red, Load-Red
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	14-160° F (-10-71° C)
<b>Cold Storage Operating Temperature Range</b>	-40-160° F (-40-71° C)
<b>Storage Temperature Range</b>	-14-160° F (-25-71° C)
<b>Relative Humidity</b>	20% to 90% non-condensing
<b>PHYSICAL</b>	
<b>Dimensions</b>	OSFHU: 3.50" H x 3.50" W x 1.25" D OSFOA: 5.50" H x 2.00" W x 2.00" D OSFLO: 4.325" H x 2.00" W x 2.00" D
<b>Construction</b>	High-impact, injection molded plastic housing
<b>Color</b>	White
<b>OTHER</b>	
<b>Agency Listings</b>	UL and CUL Listed (OSFHU models), can be used to comply with 2016 Title 24, Part 6 occupancy sensing requirements
<b>Warranty</b>	Limited 5-Year

**ORDERING INFORMATION**

<b>CAT. NO.</b>	<b>DESCRIPTION</b>
OSFHU-ITW	PIR Fixture Mount High Bay Sensor with 2 Interchangeable Lenses and Aisle Mask, White

NAFTA models available.

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