

# OSF10 Fixture Mount Integral Luminaire Occupancy Sensor



## DESCRIPTION

The Leviton OSF10 Integral Occupancy Sensor is designed to be mounted directly into a luminaire and offers a sensor and relay in one device. The wiring and housing of the sensor is installed adjacent to the ballast and hidden from view behind the reflector cover. Only the Passive Infrared (PIR) detector dome lens and locking ring are visible on the exterior of the fixture.

## APPLICATIONS

The Leviton OSF10 is designed specifically for pre-wiring and installing inside of luminaire fixtures.

- Small offices
- Cubicles
- Task lighting
- Cabinet lighting
- Small bathroom lighting

## FEATURES AND BENEFITS

- Easy installation with longer 38" leads allows for easy connection to any ballast and eliminates the need to splice additional wiring
- PIR detection technology for accurate sensing
- True Zero-Cross relay technology provides maximum contact life and compatibility with electronic ballasts
- Adjustable Time Delays located on sensor housing for easy access
- Aesthetically pleasing design
- Compact size for tight spaces
- 8' mounting heights for indoor use
- Internal fixture mount reduces number of devices on ceiling

## OPERATION

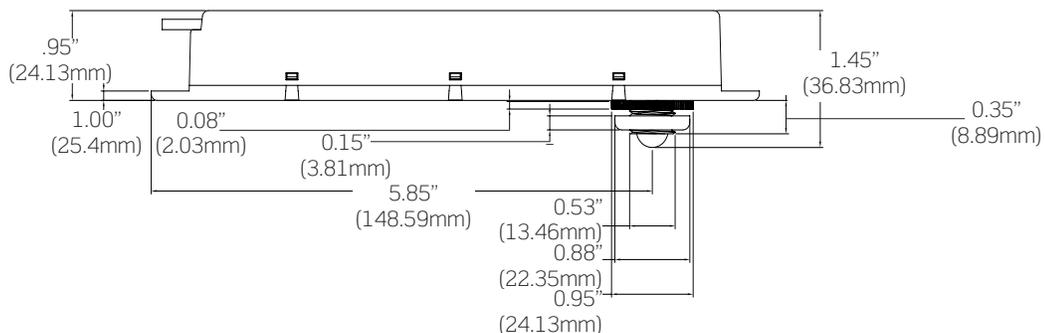
The OSF10 utilizes PIR technology with Auto-ON/ Auto-OFF operation and an adjustable Time Delay to detect motion within its field of view. A small semiconductor heat detector resides behind a multi-zone optical lens, making the sensor sensitive to the heat emitted by occupants. This Fresnel lens establishes dozens of zones of detection. In order to initially trigger the sensor, the source of heat must move from one zone of detection to another. The OSF10 is most effective in sensing motion across its field-of-view.

Once the device senses motion, the sensor will automatically turn the lights ON. When motion is no longer detected, the sensor will conclude that the space is unoccupied. This will initiate the Delay Timer. If the delay timer expires and no motion is detected, the lights will turn OFF. If motion is detected, the delay timer will stop and the lights will remain ON.

## INSTALLATION

The OSF10 is designed to mount directly into a light fixture, with only the PIR lens being visible. The wiring and housing of the sensor is installed adjacent to the ballast, hidden from view behind the reflector's cover.

## DIMENSIONS



## Leviton Manufacturing Co., Inc. Global Headquarters

201 North Service Road, Melville, NY 11747-3138 tech line 800-824-3005 fax 800-832-9538  
 ©2017 Leviton Manufacturing Co., Inc. All rights reserved. Subject to change without notice.

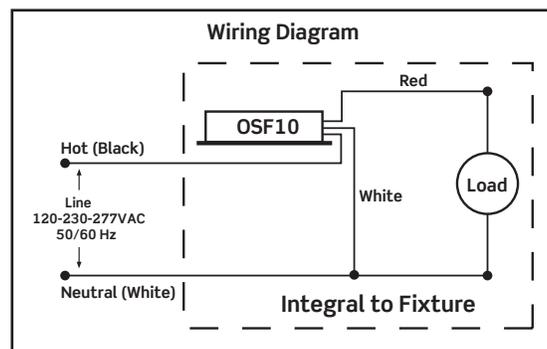
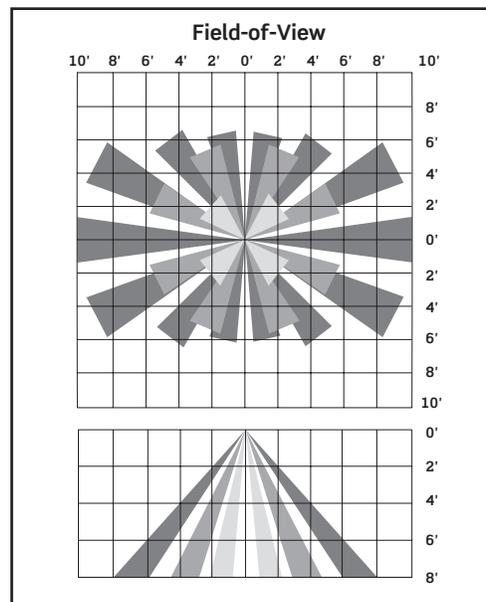
**FEATURES**

- **Passive Infrared Technology:** The OSF10 uses PIR technology to detect motion
- **Time Delay:** The time out occurs when motion is no longer detected by the sensor and the device counts a set amount of time before turning off the load. If the device sensor detects motion during this “time delay” the count resets and the device initiates a new count. The Time Delay can be adjusted to 30 seconds, 10, 20 and 30 minutes respectively.

- **Zero-Crossing Circuitry:** Relay uses a zero-crossing circuitry to provide reliable, long-life operation
- **LED:** A red LED blinks when motion is detected
- **Fresnel Lens:** Detects small motion when mounted within 6’ of occupants. When mounted at a height of 8’, the coverage will be approximately 10’ diameter but sensitivity may be diminished. The field-of-view below shows maximum coverage.

**SPECIFICATIONS**

ELECTRICAL	
Input Voltage	120-230-277
Operational Frequency	50/60 Hz
Wire Designation	Line-Black, Load-Red, Neutral- White
Load Rating	<b>Electronic Ballasts:</b> 598VA @ 120VAC <b>Fluorescent Ballasts:</b> 800VA @ 120VAC, 1200VA @ 277 VAC <b>Incandescent:</b> 800W @ 120V, Motor: 1/6 HP Load @ 120V
Time Delay	30 Seconds, 10, 20 and 30 minutes
ENVIRONMENTAL	
Operating Temperature Range	32 to 131°F (0 to 55° C)
Storage Temperature Range	-50 to 176°F (-10 to 80° C)
Relative Humidity	20-90% non-condensing
PHYSICAL	
Size	7.50" (190.5mm)L x 0.90" (22.9mm)W x 1.00" x 1.00" (25.4mm)H
Color	White
Lead Length	38" (965.2mm)
OTHER	
Listings	Complies with FCC regulations and NOM, can be used to comply with 2016 Title 24, Part 6 occupancy sensing requirements, UL listed
Warranty	Limited Five-Year Warrant
ORDERING INFORMATION	
OSF10-I0W	120-277V Integral Luminaire Occupancy Sensor



OSF10

**Leviton Manufacturing Co., Inc. Global Headquarters**

201 North Service Road, Melville, NY 11747-3138 tel 800-323-8920 fax 800-832-9538 tech line (8:30AM-7:00PM ET Mon-Fri) 800-824-3005

**Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation**

20497 SW Teton Avenue, Tualatin, OR 97062 tel 800-736-6682 fax 503-404-5594 tech line (6:00AM-4:00PM PT Mon-Fri) 800-959-6004

Visit our Website at: [www.leviton.com/sensors](http://www.leviton.com/sensors)

©2017 Leviton Manufacturing Co., Inc. All rights reserved. Subject to change without notice.

G-8076D/K17-aa  
REV NOV 2017