

Part No. OS

Fixture Mounted Occ. Sensor On/Off



Introduction

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The OS indoor sensor provides On/Off occupancy control to LED drivers.

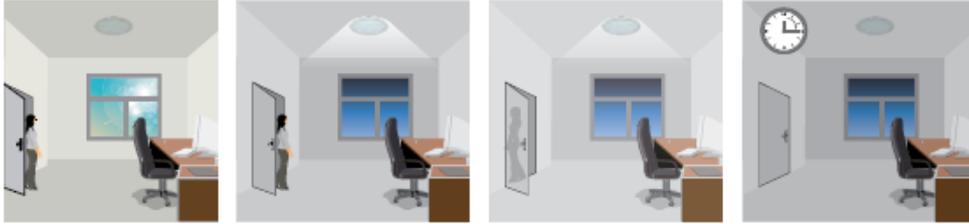
Application

The slim, low profile OS is designed for installation by external lens to connect with a light fixture body. The sensor is ideal for areas such as parking facilities, gas stations, pathways, and warehouses. The PIR sensor ensures complete coverage for mounting heights up to 40'.

Features

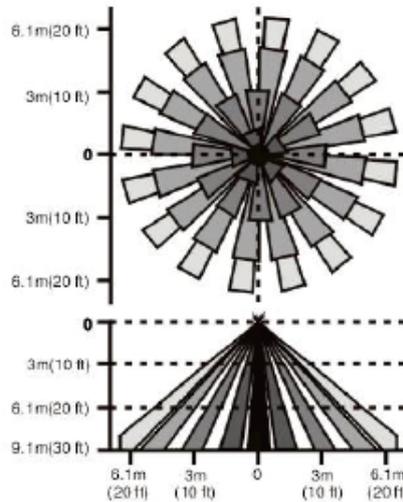
- Quicksnap feature for easy installation
- Provides On/Off control to LED Drivers
- Fast, easy time delay setting from 5 seconds to 30 min
- Provides a second occupancy time out period that enables the light to go to a dim setting before turning off
- Manual Calibration: Optimize energy savings and operation by manually configuring the Daylight Set Point
- Adjustable max/min dim setting
- California Title 24 compliant

OS Configuration

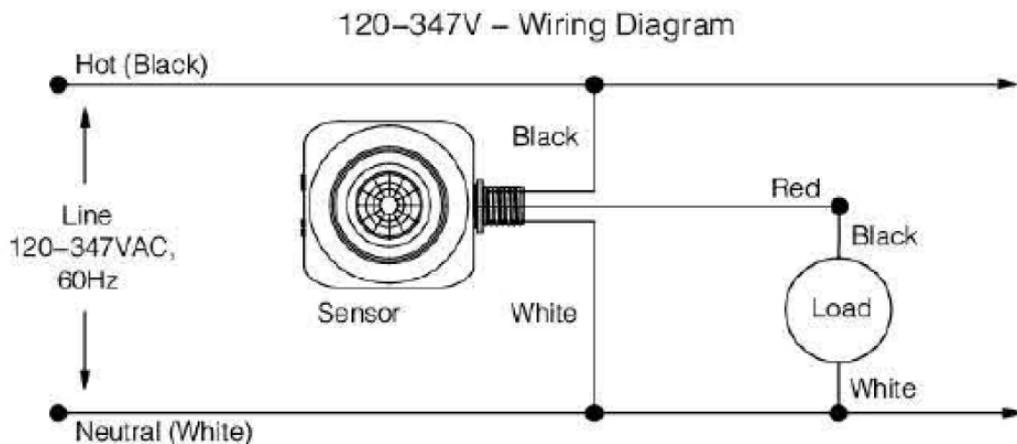


After the hold time, the whole group of fixtures dim to pre-defined dimming level when no movement detected. After the stand-by period, the whole group of fixtures switch off automatically.

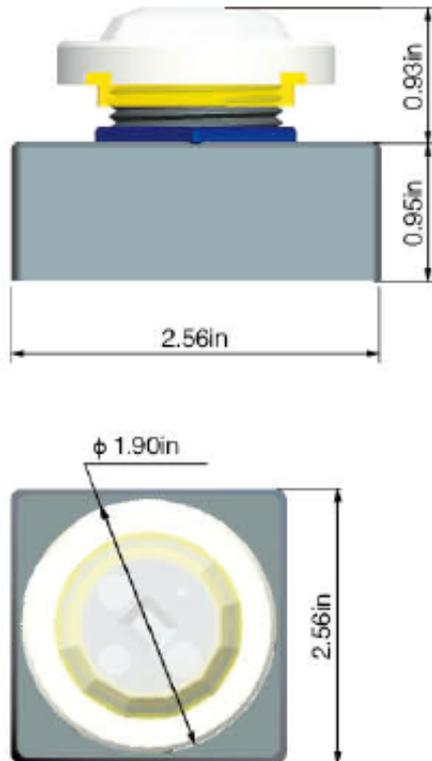
Detection Pattern



Wiring Diagram



Lens Dimensions



OS Technical Specification

Operating voltage	120~277Vac, 50Hz
Rated load	400W@220V-277VAC 200W@120VAC(inductive); 800W@220V-277VAC 400W@ 120VAC(resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	0.5mW
Power consumption	≤0.5W(standby)
Detection zone	Max.(D x H): 10m x 6m
Detection sensitivity	0% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / 30min
Daylight sensor	2lux / 10lux / 25lux / 50lux / Disable
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150°(wall installation) 360°(ceiling installation)
Operating temperature	20℃~60℃
IP rating	IP20

Installation Instructions

Sensor Installation

1. Remove the lock nut from the thread clockwise on to the half inch end of the luminaire body or the electrical box.
2. Slide the lock nut over the wires and thread clockwise on the thread end to secure the sensor firmly in place making sure the lens is orientated towards the area to be monitored (field of view).
3. Connect wire per Wiring Diagram as follows: Black lead to line(hot), Red lead to LOAD, White to Neutral.

Settings and Configurations

Time Delay Knob

Turn the adjustment on the left "TIME" fully counter clockwise to the minimum setting (30 seconds) while fully clockwise to the maximum setting (30 minutes), verify by turning lights on with pushbutton.

Sensor Sensitivity Range Knob

Default position: 75% (Position 3)

Adjustable: 50% (Position 1) to 100% (Position 5)

The sensitivity adjustment is in the center and marked "SENSE", Adjust the sensitivity setting to avoid unwanted detection such as hallway traffic or adjacent movement, Turning the setting counter clockwise will decrease sensitivity while turning it clockwise will increase it. Max sensitivity while turning it clockwise will increase it. Max sensitivity can be achieved by turning fully clockwise on Position 5.

Troubleshooting

Lights Will Not Turn ON

- Circuit breaker or fuse is OFF: Turn the breaker ON. Ensure the lights being controlled are in working order (i.e., working bulbs, ballasts, etc.)
- Sensor is wired incorrectly or may be defective: Confirm that the sensor's wiring is done correctly and inspect visually for problems.
- Lens is dirty or obstructed: Inspect the lens visually and clean if necessary, or remove the obstruction.

Lights Will Not Turn OFF

- Make sure no motion is occurring in the coverage area until the 15 seconds (factory set) time delay expires.
- Sensor is wired incorrectly or may be defective: Confirm that the sensor's wiring is done correctly and inspect visually for problems.
- Sensor may be mounted too closely to an air conditioning or heating vent: Move the sensor or close the vent.
- The line voltage has dropped: Perform the necessary tests to ensure the line voltage has not dropped beneath 100 V.

Lights Turn OFF and ON Too Quickly

- Sensor may be mounted too closely to an air conditioning or heating vent: Move the sensor to another location or close the vent
- Time delay set improperly: Refer to Time delay Adjustment.