



54900

360° High Bay PIR Fixture Mount Occupancy Sensor

TECHNICAL DATA SHEET

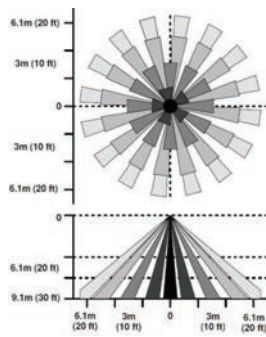


FEATURES AND DESCRIPTION

Specifically designed to replace standard light or fan switch for high mounted areas such as warehouses, manufacturing and other high ceiling applications.

- Fixture or electrical box mounted Occupancy Sensor
- 20 ft. X 20 ft. aisle pattern at 30 ft. mounting height
- 360° Field-of-view for 15 ft. to 30 ft. High Bay mounting heights
- Adjustable Time Delay (15 Seconds - 30 Minutes)
- Smart Timing Detection Logic
- 20" Pre-stripped color coded wire leads
- Snap Fit Threaded Mount for easy installation. Snap fit is keyed and designed to snap into the Motion Sensor and Fixture.
- Load requirements: 0-800W/0-1200W Incandescent, fluorescent, indicate LED lamp, compact fluorescent(CFL), magnetic low-voltage(MLV) and electronic low-voltage(ELV) Box

High Bay 360° Top and Side View



Length (L)	Width (W)	Height (H)
3.55"	3.55"	1.57"



INSTALLATION AND WIRING

AVOID HVAC TURBULENCE: When Heating, Ventilating or Air Conditioning (HVAC) registers turn on, they create turbulence which can cause the sensor to activate. It is important that the sensor and HVAC register be separated by at least 6'.

Windows, glass doors and other transparent barriers will obstruct the sensor's view and prevent detection.

NOTE: The Sensor's field-of-view may be partially obstructed by the Luminaries housing. 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 Fig 1A).

SENSOR INSTALLATION:

1. Remove the lock-nut from the thread clockwise on to the threaded nipple into a half inch hole of the luminaire body or the electrical box.
2. Slide the lock-nut over the wires and thread clockwise on to the threaded nipple to secure the sensor firmly in place making sure the lens is orientated towards the area to be monitored (-field-of-view).(refer to Fig 2A)
3. Connect wire per wiring diagram as follows:
BLACK lead to LINE (HOT) • RED lead to LOAD • WHITE lead to NEUTRAL.

Twist the existing wires together with wire leads on the 54900 sensor as indicated. Cap them securely using the wire nuts provided. (Refer to Fig 2B)

4. Restore power at circuit break or fuse.

TIME DELAY ADJUSTMENT: When people leave the load can still work within the set time period . It can be adjusted from 15 seconds up to 30 minutes. The left is the minimum 15 seconds and the right is the maximum 30 minutes.

SENSITIVITY ADJUSTMENT: To decrease the PIR detection range and sensitivity, rotate the knob counter clockwise. The detection range can be adjusted from 100% down to 30%.

TROUBLESHOOTING

Lights will not turn ON

- Circuit breaker or fuse is OFF. Ensure the lights being controlled are in working order.
- Sensor is wired incorrectly or may be defective: confirm wiring is done correctly and inspect for visual problems.
- Lens is dirty or obstructed: Inspect and clean if necessary.

Light will not turn OFF

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

Lights turn OFF and ON too quickly

- Sensor is mounted too closely to a air conditioning or heating vent.
- Time delay is set improperly.

WARNING

Disconnect power to sensor by turning OFF circuit breaker or removing the fuse for the circuit before installing, replacing lamps or doing any electrical work.

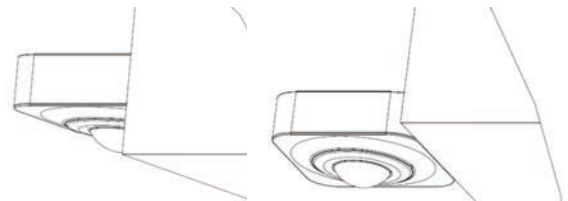


Fig 1A

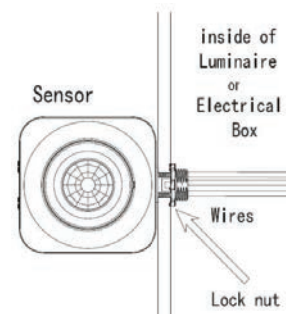


Fig 2A

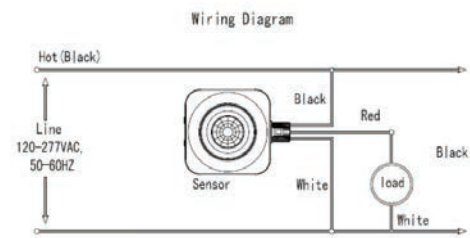


Fig 2B



Fig 3A