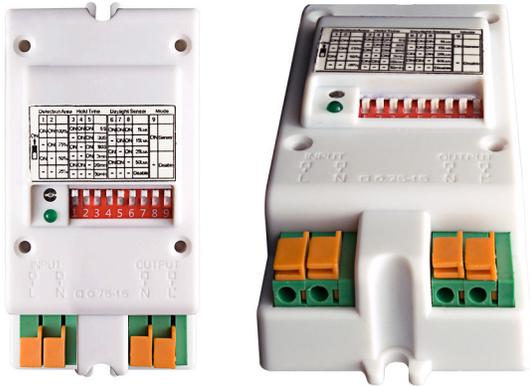


High Frequency Microwave Occupancy Sensor



Description

The Leviton High Frequency Microwave Occupancy Sensor (OSM3D) is an innovative sensor that detects motion through low density materials using high frequency electromagnetic waves. The OSM3D offers superior detection and can be installed behind fixture lenses, inside a lighting fixture or behind objects made of plastic or glass. The high frequency waves offer less interference and false tripping than traditional sensing technology for reliable occupancy applications. The integrated daylighting sensor detects natural light and turns lights ON or keeps lights OFF in response to available natural light or the daylight set point when motion is detected.

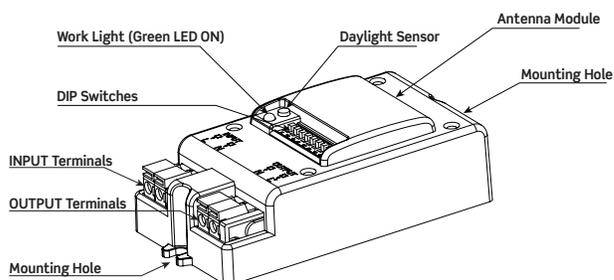
Applications

The OSM3D offers superior detection and is designed for installation in a variety of settings:

- Garages
- Warehouses
- Metal walls or fixtures including wall sconces and wall packs
- Can be installed inside of an IP65/IP66 enclosure or fixture for washdown applications*

*When mounted inside of an enclosure, sensing range will be reduced; cannot be mounted inside metal enclosure.

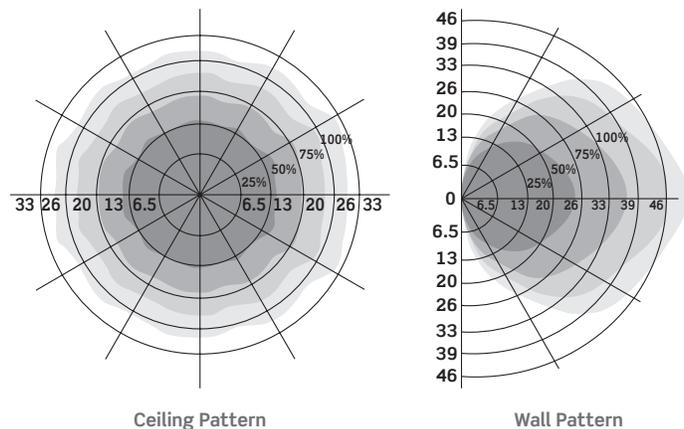
Sensor Features



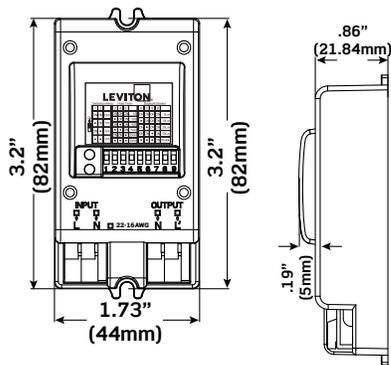
Features

- Designed to detect movement behind low-density fixture materials or behind objects made of plastic or glass
- Automatic switching based on motion and ambient light level
- Zero crossing detection circuitry—protects the sensor against inrush current when switching
- LED lighting compatible
- Detection area, time delay and daylight threshold can be set via sensor DIP switch
- Hold times range from 10 seconds to 30 minutes
- UL/cUL listed
- 150° wall detection, 360° ceiling detection
- 5.8 GHz high frequency microwave
- 4-pole press-in terminal for easy wiring
- Surface or base mounting—can be hidden from view
- Can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy sensing requirements

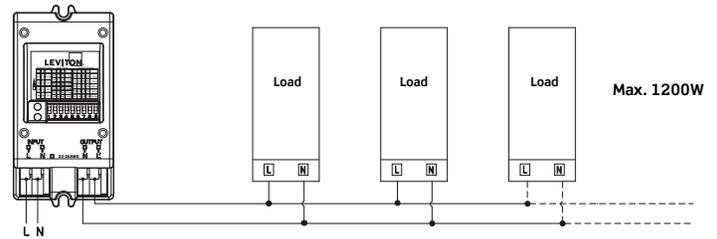
Field-of-View



Dimensions



Wiring Diagram



Specifications

Electrical

Voltage	120-277V 50/60 Hz
Load Rating	Tungsten: 800 W @ 120VAC, Electronic Driver/Ballast: 1000VA @ 120VAC, Driver: 1200VA @ 277VAC
Frequency	50/60 Hz
Microwave High Frequency	5.8 GHz
Transmitting Power	<0.5mW
Power Consumption	≤0.5W (standby), <1W (operation)
Detection Zone	52'(16m)D x 32'(10m)H Max
Detection Sensitivity	25% / 50% / 75% / 100%
Daylight Sensor	0.46FC (5lux)/1.39FC (15lux)/2.78FC (30lux)/4.64FC(50lux)/disable
Mounting Height	Up to 32ft (10m)
Detection Angle	150° (wall), 360° (ceiling)

Environment

Operating Temperature	-13°-140°F (-25-60°C)
Humidity	20-90% non-condensing

Other

Energy Codes	Can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy sensing requirements
Listing	UL/cUL
Rating	IP20
Warranty	5-Year

Ordering Information

High Frequency Microwave Sensor

Cat. No.	Description
OSM3D-V1W	High Frequency Microwave Sensor, 120-277V, White

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Visit our Website at: www.leviton.com/sensors

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