### Product Data **OSMHB-VDW**



# High Bay Microwave 0-10V Fixture Mount **Occupancy Sensor**



**ZLSOR** 

#### **Basic Operation**

The Leviton High Bay Microwave 0-10V Fixture Mount Occupancy Sensor (OSMHB-VDW) is a 5.8 GHz highfrequency motion sensor designed to mount directly to a 0-10V fixture for occupancy detection and multi-level control with adjustable time-outs. A built-in photocell reads brightness values, so the sensor does not switch the luminaire ON if sufficient ambient light is present. Control parameters are manually selected using the DIP Switches on the device or with the optional ZLSOR-RC1 IR Remote to obtain desired configuration parameters. These include adjustable sensitivity, hold time, lux level or daylighting hold-off, stand-by light level and stand-by hold time. Use the ZLSOR-RC1 Remote to store and transmit sensor profiles to other OSMHB-VDW devices if configuration requirements are the same.

The OSMHB-VDW is suited for high bay fixtures and has a maximum mounting height of up to 50ft and an adjustable coverage radius of up to 30ft.

#### Applications

- Warehouses
- Manufacturing
- Indoor parking garages

#### Installation

The OSMHB installs directly to an industrial LED fixture or an electrical junction box through a standard 1/2" knockout using the provided lock-nut. Wiring is connected inside the fixture body. A metal shield can be used to shield or limit field-of-view. The OSMHB can be used with Leviton offset adapters such as the OSFOA or OSFLO to improve field-of-view (sold separately).

#### **Features**

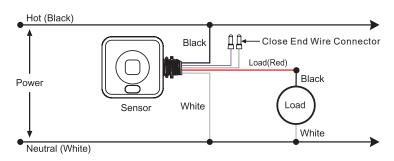
- Tri-level dimming control
- Programmable dim-to-min light levels and time outs
- Specifically designed for LED fixture control
- Suitable for use in standard and cold storage applications
- Can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/vacancy sensing and dimming requirements
- Visual RGB LED indicators for device states and easy troubleshooting
- Adjustable hold-times
- Pre-stripped color-coded wire leads
- Suitable for mounting heights 8'-50'
- Quicksnap feature for easy installation
- H.I.S. (High Inrush Stability) Technology
  - Zero crossing circuitry
  - Robust mechanical latching relay
- Relay always returns to close after power loss event
- UL listed for electronic ballast loads 120/277V

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

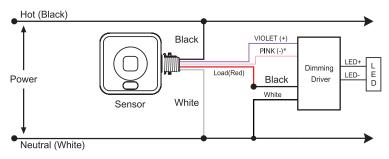
201 North Service Road, Melville, NY 11747-3138 tel 800-323-8920 tech line (8:00AM-10:00PM ET Mon-Fri, 9:00AM-7:00PM ET Sat, 9:00AM-5:00PM ET Sun 800-824-3005 ©2023 Leviton Manufacturing Co., Inc. All rights reserved. Subject to change without notice.

## **Wiring Diagrams**

Non-Dimming Driver

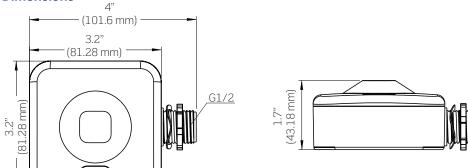


#### **Dimming Driver**

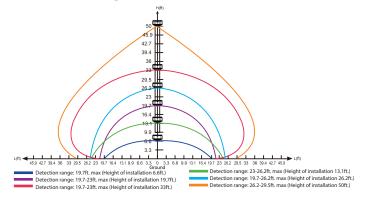


\* Depending on manufacture date, pink wire may be gray

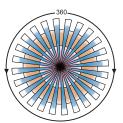
#### **Dimensions**



# Field of View Diagram



**Ceiling Installation** 



**Detection Angle** 

#### Product Data OSMHB-VDW



# Specifications

Electrical	
Input Voltage	120/277VAC
Operational Frequencies	50/60 Hz
Load Rating	Resistive/Halogen:   800W@120V   1200W@277V   Fluorescent Ballast:   660W@120V   1200W@277V   Electronic Ballast/LED Driver:   800W @ 120VAC LED,CEL   1200W@ 277VAC LED,CEL   660W @ 120VAC   1200W @ 277VAC LED,CEL   1200W @ 277VAC LED,CEL   1200W @ 277VAC LED,CEL   1200W @ 277VAC LED,CEL   1200W @ 277VAC
Minimum Load	No requirement
Dimming Output	0-10V, max. 25mA sinking current
Time Delay	10s-15m
Wire Designation	Line-Black, Load-Red, Neutral-White
IP Rating	IP20
Environmental	
Network Connections	N/A
Operating Temperature Range	-40 to 158° F (-10 to 50° C)
Storage Temperature Range	-40 to 184° F (-40 to 50° C)
Relative Humidity	Max. 95% RH
Header	
Dimensions	OSMHB: 3.2" (81.28mm) H x 4" (101.6mm) W x 1.7" (43.18mm) D
Construction	High-impact, injection molded plastic housing
Color	White
Other	
Agency Listings	IP42 Rated, UL 773A, CSA 22.2 No. 205 M1983, FCC Certified
Energy Codes	Can be used to comply with IECC, ASHRAE 90.1, and 2022 Title 24, Part 6 occupancy/ vacancy sensing and dimming requirements
Warranty	Limited 2-Year

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#### **Ordering Information**

Product Name	
Cat. No.	Description
OSMHB-VDW	High Bay Fixture Mount Microwave Occupancy Sensor with photocell and multi-level control; single relay with one (0-10VDC sinking current); adjustable via DIP switches on sensor or with optional IR remote (ZLSOR-RA1); 120-277V, 50/60Hz. Color: White
ZLSOR-RC1	IR remote for OSMHB

#### Leviton Manufacturing Co., Inc. Lighting & Controls

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

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