



LEVITON ODDMT-MLW Smart Multi Tech 24V Dimming Wallbox Sensor Owner's Manual

[Home](#) » [Leviton](#) » **LEVITON ODDMT-MLW Smart Multi Tech 24V Dimming Wallbox Sensor Owner's Manual** 

Contents

- [1 LEVITON ODDMT-MLW Smart Multi Tech 24V Dimming Wallbox Sensor](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Description](#)
- [5 Applications](#)
- [6 Features](#)
- [7 Wiring Diagram](#)
- [8 Dimensions Diagram](#)
- [9 Specifications](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)



LEVITON ODDMT-MLW Smart Multi Tech 24V Dimming Wallbox Sensor



Product Information

Product Name: ODDMT-MLW Smart Multi-Tech 24V Dimming Wallbox Sensor

Features:

- PIR Lens & Nightlight Microphonics
- Dimming Level Indicator
- Programmable button
- Photocell & LED Locator Light
- ON/OFF Button
- Dimming Bar

Product Usage Instructions

Motion Zones

The ODDMT-MLW has two motion zones:

- **Minor Motion Zone:** Detects small body movements and keeps the lights ON when individuals in the space are more stationary.
- **Major Motion Zone:** Exhibits a lesser degree of sensitivity and requires larger movements to trigger the lights.

Configuration

The ODDMT-MLW can be configured using the Leviton Smart Sensor App from a smartphone or other Bluetooth-enabled Android or iOS device. Alternatively, you can perform a simple configuration using pushbutton setup for common pre-configured options. The ODDMT also integrates a photocell for daylighting holdOFF, which can be programmed using the Leviton Smart Sensor App.

Front View:

- Width: 2.12 inches (53.95 mm)
- Height: 1.27 inches (32.18 mm)
- Depth: 1.86 inches (47.25 mm)

Field of View:

- Major motion coverage: 1100 sq ft (102 sq m)
- Minor motion coverage: 400 sq ft (37.2 sq m)

Specifications

- **Electrical:** Input Voltage/Frequency: 24V, Input Current: 0.02A, 120-277V compatible
- **IP Rating:** IP20
- **Network Connections:** BLE 4.2, BLE 5.0
- **Environmental:** Operating Temperature: N/A, Storage Temperature: N/A
- **Physical Dimensions:** 4.13 x 2.12 x 1.86 inches (104.90mm x 53.95mm x 47.25mm)
- **Other:** Energy Codes: Can be used to comply with ASHRAE 90.1, IECC and 2022 Title 24, Part 6 occupancy/vacancy sensing, dimming, and manual-ON/auto-OFF requirements
- **Listings:** UL and cUL listed; JIS Z 2801:2000 FCC, ICC
- **Warranty:** Limited five-year warranty

FAQ

- **Q: How can I configure the ODDMT-MLW without a smart device?**

A: You can use the pushbutton hold configuration method mentioned in the user manual. Please refer to the manual for detailed instructions.

- **Q: What is the purpose of the photocell in the ODDMT-MLW?**

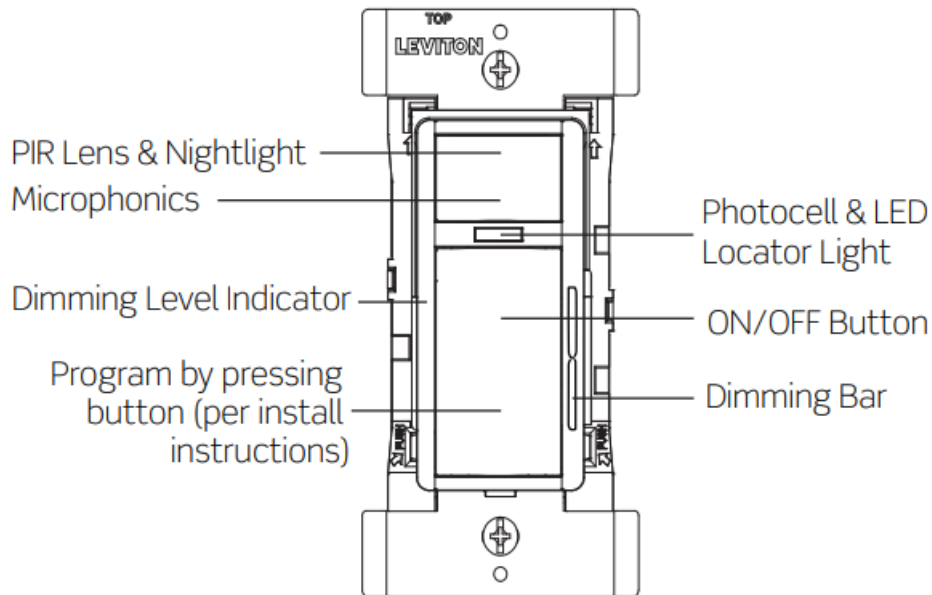
A: The photocell allows for daylighting holdOFF. It can be programmed using the Leviton Smart Sensor App to adjust lighting based on the availability of natural light.

- **Q: What energy codes does the ODDMT-MLW comply with?**

A: The ODDMT-MLW can be used to comply with ASHRAE 90.1, IECC, and 2022 Title 24, Part 6 occupancy/vacancy sensing, dimming, and manual-ON/auto-OFF requirements.

Description

The Leviton Smart 24V Dimming Wallbox Sensor (ODDMT-MLW) is designed for use with an OPP20 or OSA20 Power Pack or other Leviton (24V) low-voltage sources. The sensor uses Passive Infrared (PIR) detection and Microphonics technology to monitor a room for occupancy. The PIR sensor uses a specialized segmented and tamper-resistant lens that divides the field of view into sensor zones. When a person passes in or out of a sensor zone the sensor detects motion and switches the lights ON. The lights will remain ON as long as an occupant moves through the sensor zones and will turn off when the space becomes vacant and after the timeout expires. The ODDMT also utilizes Microphonic technology that “listens” for human activity in the space and will keep the lights ON when motion is detected. Microphonics does not require direct line of sight and can pick up human activity behind obstructions that PIR-only devices are unable to detect. The ODDMT features a vacancy mode for manual-ON/auto-OFF operation, ideal for installations where manual-ON switching is required for energy code applications. Lighting levels can be adjusted using the dimming bar next to the switch. A “minor motion” zone detects small body movements. This detection allows the lights to remain ON when individuals in the space are more stationary. The “major motion” zone exhibits a lesser degree of sensitivity requiring larger movements.



Configuration of the ODDMT is made using the Leviton Smart Sensor App from a smartphone or other Bluetooth-enabled Android or iOS device. Simple configuration can also be applied using pushbutton setup for several common pre-configured options. The ODDMT integrates a photocell for daylighting hold-OFF which can be programmed using the Leviton Smart Sensor App.

Applications

- Office
- Small Lobbies
- Meeting Rooms
- Bathrooms/Restrooms
- Conference Rooms

Features

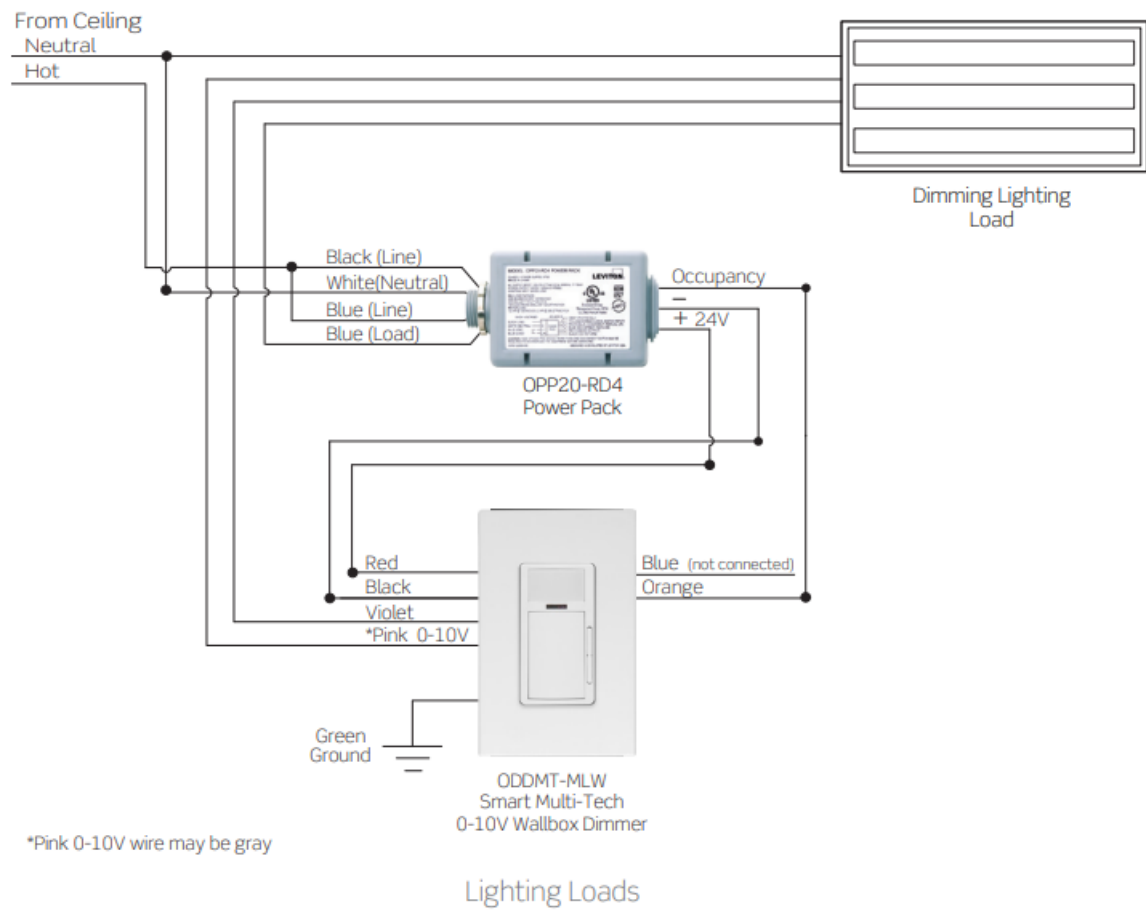
- Can be used to comply with ASHRAE 90.1, IECC and 2022 Title 24, Part 6 occupancy/vacancy sensing, dimming, and manual-ON/auto-OFF requirements
- Fits in a standard wallbox and gangable with other units
- ODDMT is designed for use with a power pack (OPP20 or OSA20) or other Leviton low voltage (24V) source
- 180° field-of-view provides approximately 1,100 square feet of coverage
- Latest PIR technology accurately detects minor motion up to 400sq ft and major motion up to 1,100 sq ft
- Maximum sensing distance in front of the sensor is 30-40 feet and 15-20 feet on either side
- Microphonics technology able to detect human activity and does not require direct line-of-sight
- Integrated photocell for daylighting hold-OFF
- Add a Power Pack and Controlled Receptacles for plug load control
- Tamper resistant PIR lens
- Use the Leviton Push to Pair (P2P) process to create a multi-way system for up to 5 devices
- Antimicrobial treated faceplate and wallplate available
- Advanced configuration can be performed using the Leviton Smart Sensor App on any Bluetooth-enabled Android or iOS device:
- Set operating mode to Occupancy (auto-ON/auto-OFF) or Vacancy (manual-ON/auto-OFF)

- Adjust sensitivity and timeouts
- Set up partial-ON and partial-OFF levels and partial-OFF timeouts
- Enable the integrated photocell for daylighting hold-OFF and select target daylighting hold-OFF levels
- Create custom templates for easy multi-room replication of sensor settings
- Activate the nightlight and select nightlight color
- Set a security code to lock configuration settings
- Out-of-the-box configuration default mode:
- Auto-ON/Auto-OFF with 20-minute timeout
- Sensitivity set to 75%
- Nightlight and daylighting disabled
- Convenient pushbutton hold configuration for installers without a smart device*:

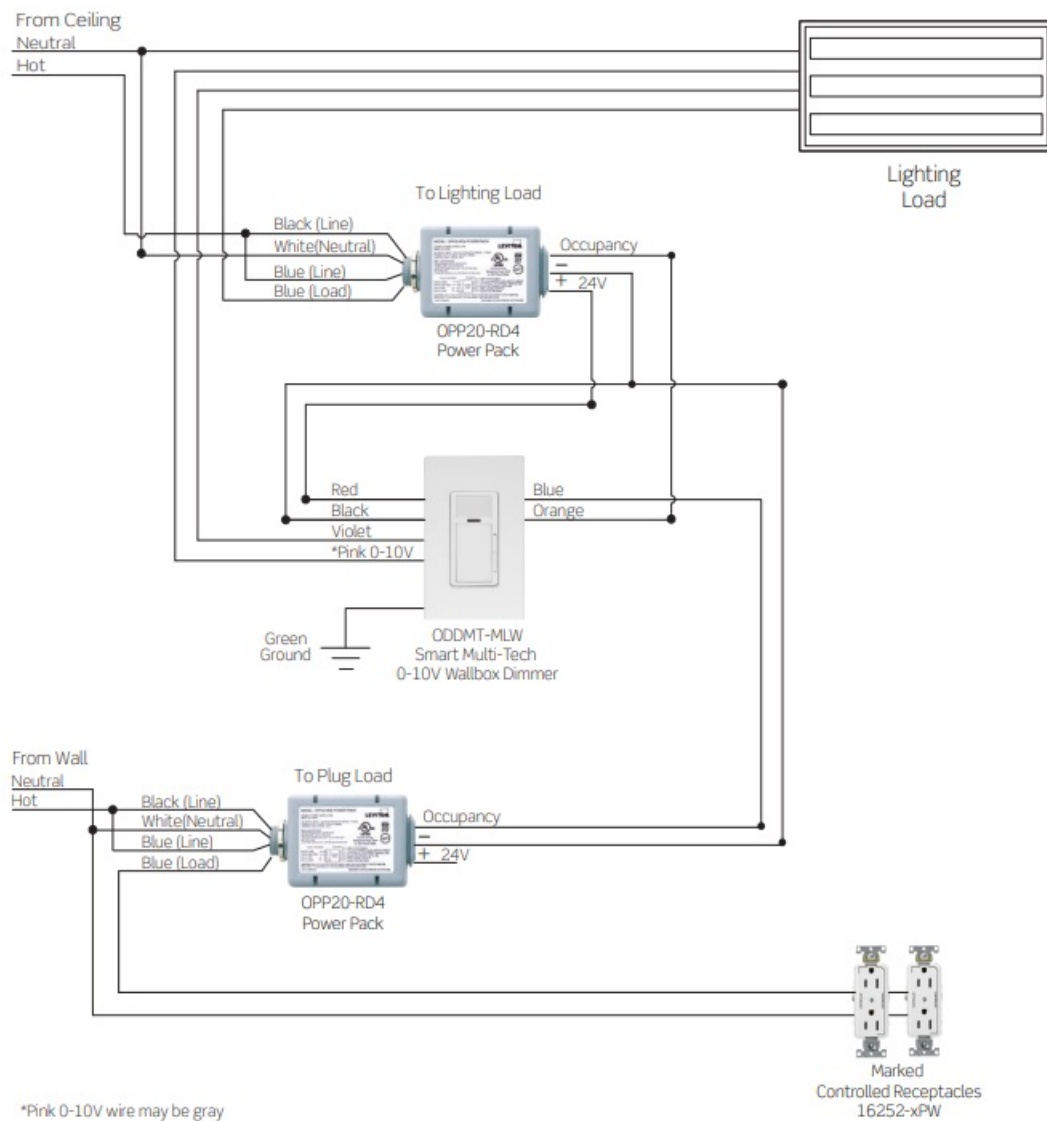
Pushbutton Hold Configuration				
Button (#)	Operating Mode	PIR Sensitivity (%)	Microphonics Sensitivity (%)	Time Out (mins)
1	auto-ON/ auto-OFF	75	75	20
2				10
3			OFF	20
4			50	
5		100	75	
6			100	
7	Manual-ON/ auto-OFF	75	75	10
8				20
9			OFF	
10			50	
11		100	75	
12			100	

Wiring Diagram

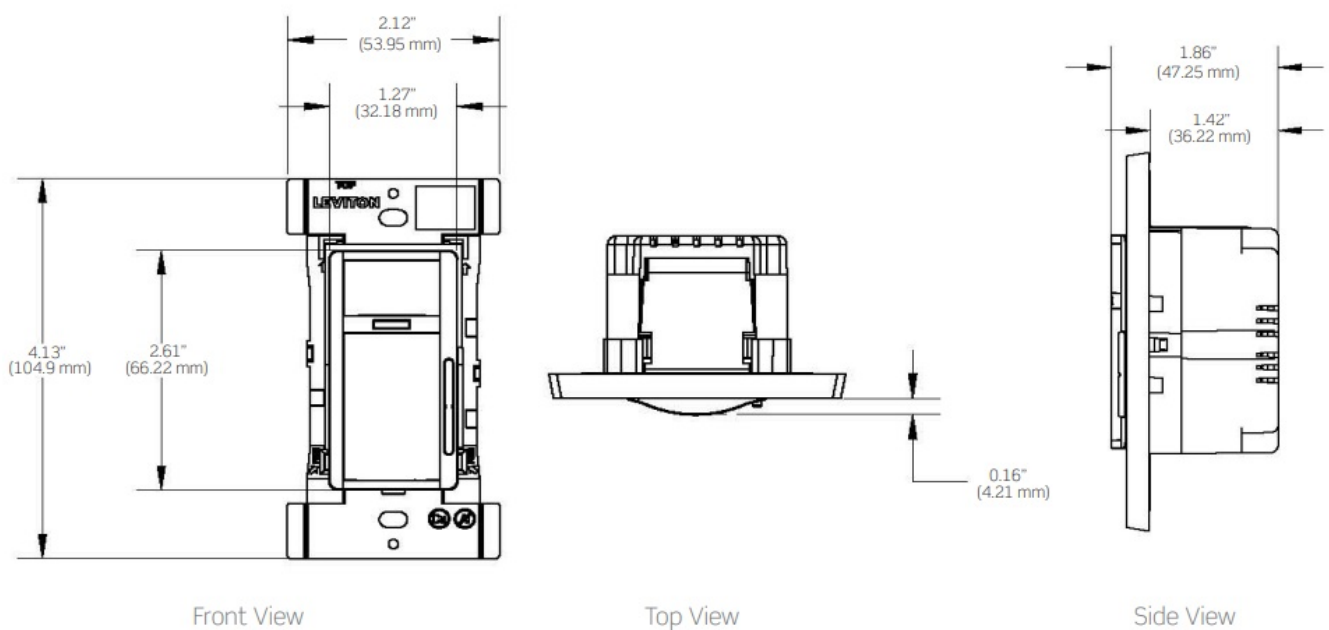
ODDMT-MLW



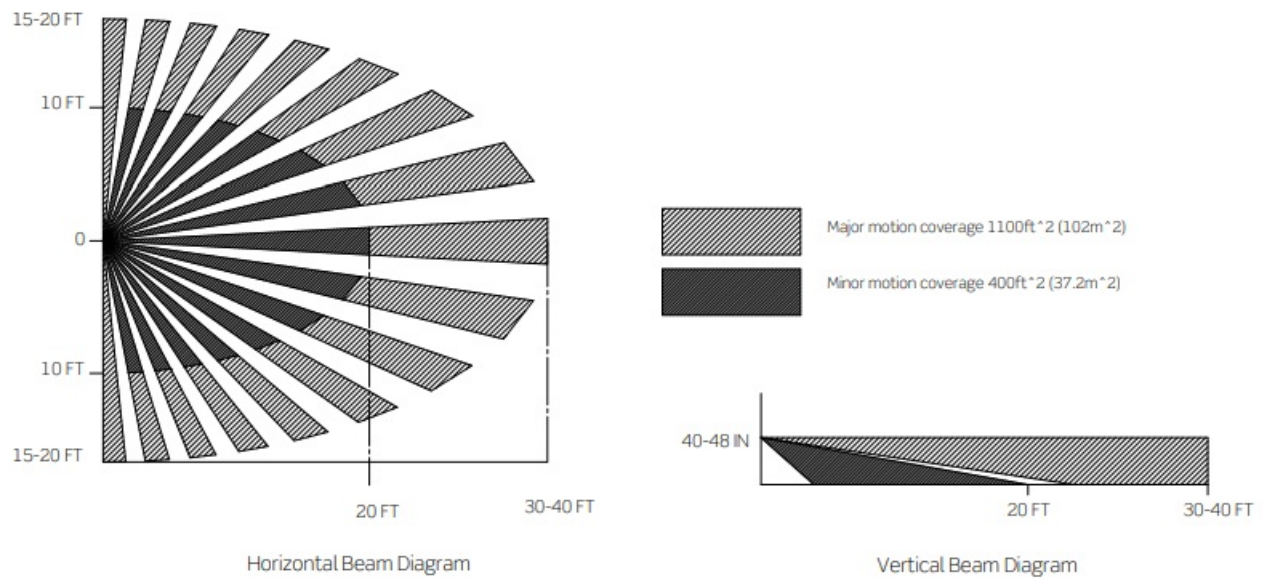
Plug Load Control—ODDMT-MLW



Dimensions Diagram



Field of View Diagram



Specifications

Electrical	
Input Voltage/Frequency	12-24VDC
Input Current	
24V	0.02A
120-277	N/A
IP Rating	IP20
Network Connections	BLE 4.2, BLE 5.0
Environmental	
Operating Temperature	32 to 104°F (0 to 40°C)
Storage Temperature	-40 to 185°F (-40 to 85°C)
Physical	
Dimensions	4.13" x 2.12" x 1.86" (104.90mm x 53.95mm x 47.25mm)
Other	
Energy Codes	Can be used to comply with ASHRAE 90.1, IECC and 2022 Title 24, Part 6 occupancy/vacancy sensing, dimming, and manual-ON/auto-OFF requirements
Listings	IECC, UL and cUL listed; JIS Z 2801:2000
Certifications	FCC, ICC
Warranty	Limited five-year warranty


Ordering Information

Smart Wallbox Sensors	
Cat. No.	Description
ODDMT-MLW	Smart Multi-Tech 24V Dimming Wallbox Sensor, 12-24V input Sensor, App configurable; White
ODDKT-00E	Smart Dimming Wallbox Sensor Color Change Kit, Black
ODDKT-00R	Smart Dimming Wallbox Sensor Color Change Kit, Red
ODDKT-00G	Smart Dimming Wallbox Sensor Color Change Kit, Gray
ODDKT-00I	Smart Dimming Wallbox Sensor Color Change Kit, Ivory
ODDKT-00T	Smart Dimming Wallbox Sensor Color Change Kit, Light Almond
ODDKT-00W	Smart Dimming Wallbox Sensor Color Change Kit, White

Note: Wallplate sold separately.

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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)
Visit our Website at: www.leviton.com/smartsensors
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Documents / Resources



[LEVITON ODDMT-MLW Smart Multi Tech 24V Dimming Wallbox Sensor](#) [pdf] Owner's Manual

ODDMT-MLW, ODDMT-MLW Smart Multi Tech 24V Dimming Wallbox Sensor, Smart Multi Tech 24V Dimming Wallbox Sensor, Multi Tech 24V Dimming Wallbox Sensor, 24V Dimming Wallbox Sensor, Dimming Wallbox Sensor, Wallbox Sensor, Sensor

References

- [Smart Sensor: Occupancy, Vacancy, Dimming, Light Integrated](#)
- [User Manual](#)