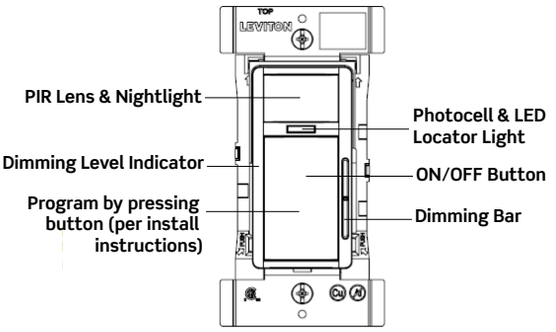
LEVITON

Smart PIR 24V Dimming Wallbox Sensor



DESCRIPTION

The Leviton Smart 24V Dimming Wallbox Sensor (ODD24-IDW) is designed for use with an OPP20 or OSA20 Power Pack or other Leviton (24V) low voltage sources. Lighting levels can be adjustedusing the dimming bar next to the switch and uses Passive Infrared (PIR) detection technology to monitor a room for occupancy using a segmented, tamper resistant lens. When a person passesin or out of a sensor zone the sensor detects motion and switches the lights ON. The lights will remain ON as long as long as an occupant moves through the sensor zones and after the timeout expires. The ODD24-IDW features a vacancy mode for Manual-ON/Auto-OFF operation, ideal for installations where manual-ON switching is required for energy code applications.

A “minor motion” zone detects small body movements. This detection allows the lights to remain ON when individuals in the space aremore stationary. The “major motion” zone exhibits a lesser degree of sensitivity requiring larger movements.

Configuration of ODD24-IDW 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 ODD24-IDW integrates a photocell for daylighting which can be programmedusing the Leviton Smart Sensor App.

APPLICATIONS

- Small Offices
- Lobbies
- Small Meeting Rooms

FEATURES

- Can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy/vacancy sensing and dimming requirements
- Fits in a standard wallbox and gangable with other units
- ODD24-IDW 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
- Maximum sensing distance in front of the sensor is 30-40 feet and 15-20 feet on either side
- Advanced configuration can be performed using the Leviton Smart Sensor App on any Bluetooth enabled Android or iOS device:
  - Set operating mode to Auto-ON/Auto-OFF or Manual-ON/Auto-OFF
  - Adjust the sensitivity of the sensor to increase or decrease coverage area
  - Adjust timeouts
  - Activate the nightlight and select nightlight colors
  - Add daylighting hold-off and select target daylighting hold-off levels
  - Set a security code to lock configuration settings
  - Configure dimming options such as Partial-ON, Partial-OFF, and Partial-OFF timeouts
- Out-of-the-box configuration default mode:
  - Auto-ON/Auto-OFF with 10-minute time out
  - Sensitivity set to 75%
  - Nightlight and daylighting hold-off disabled
- Convenient pushbutton hold configuration for installers without a smart device*:

PUSHBUTTON HOLD CONFIGURATION

Button (#)	Operating Mode	Sensitivity (%)	Time Out (mins)
1	Auto-ON/ Auto-OFF	75	10
2			20
3		100	10
4			20
5	Manual-ON/ Auto-OFF	75	10
6			20
7		100	10
8			20

*Requires removal of front face cover

Leviton Manufacturing Co., Inc. Lighting & Controls
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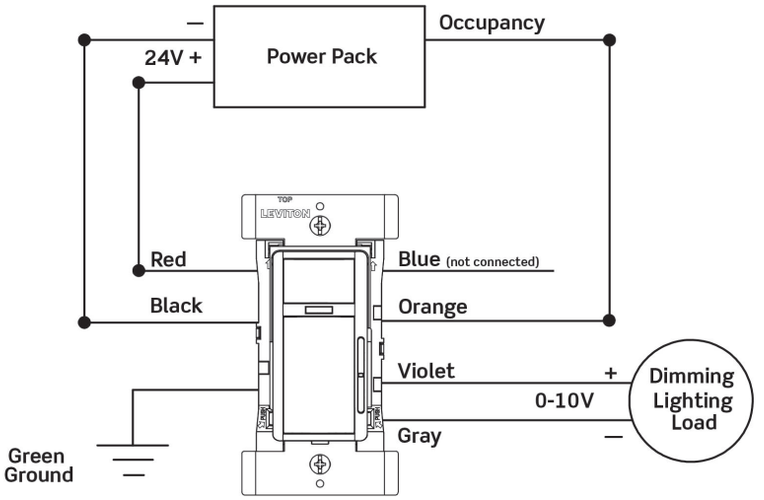
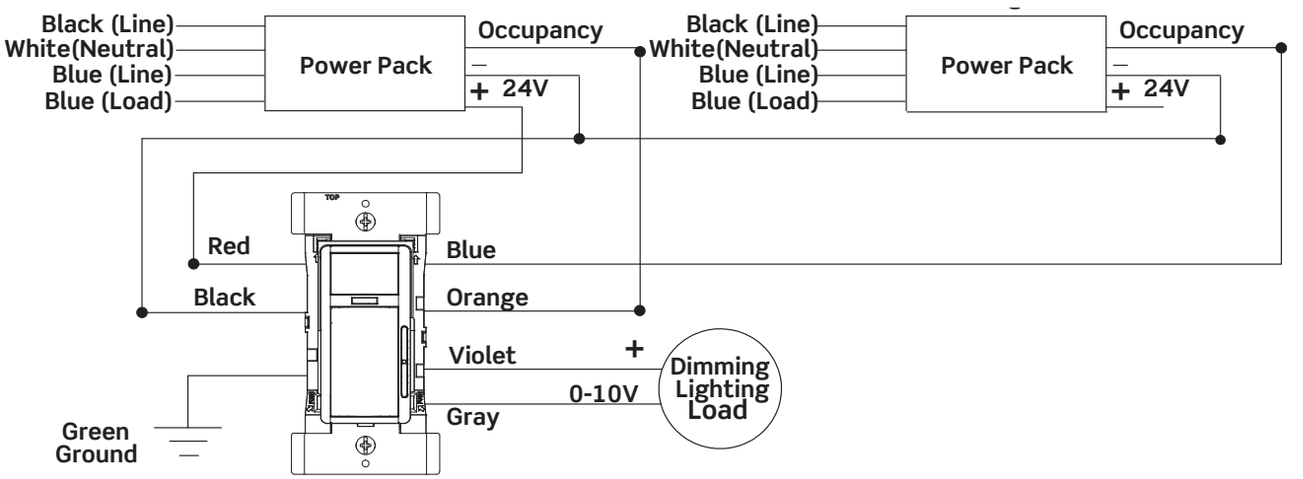
PRODUCT DATA

WIRING DIAGRAM

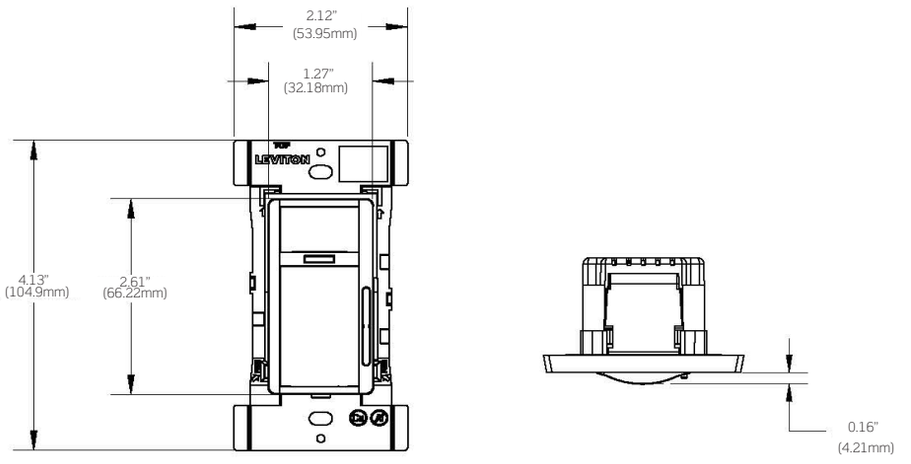
FOR LIGHTING LOADS



FOR LIGHTING AND PLUG LOAD CONTROL



DIMENSIONS

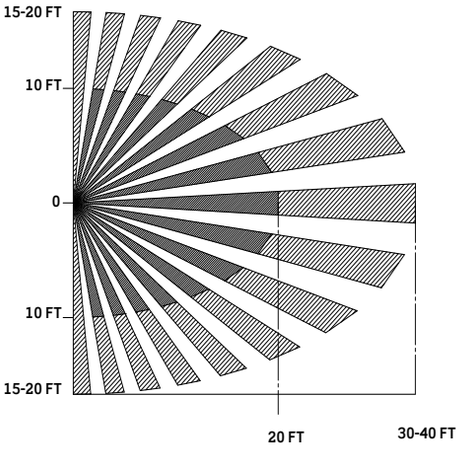


Front View

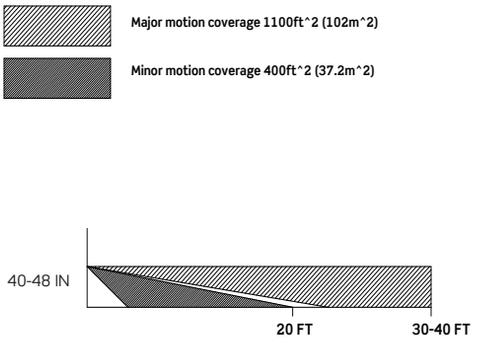
Top View

Side View

FIELD-OF-VIEW (IN FEET)



Horizontal Beam Diagram



Vertical Beam Diagram

SPECIFICATIONS

ELECTRICAL	
Input Voltage/Frequency	12-24VDC
Input Current	
24V	0.02A
120-277	N/A
IP Rating	IP10
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	53.95 x 47.25 x 104.90 (2.12mm x 1.86mm x 4.13mm)
OTHER	
Energy Codes	Can be used to comply with ASHRAE 90.1, IECC and 2019 Title 24, Part 6 occupancy/vacancy sensing, dimming, and manual-ON/auto-OFF requirements
Listings	IECC, UL and cUL listed
Certifications	FCC, ICC
Warranty	Limited five-year warranty

ORDERING INFORMATION

CAT NO.	DESCRIPTION
ODD24-IDW	Smart Dimming PIR 24V Wallbox Sensor, 12-24V input Sensor, App configurable; Color: White
ODDKT-00B	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-00A	Smart Dimming Wallbox Sensor Color Change Kit, Light Almond
ODDKT-00W	Smart Dimming Wallbox Sensor Color Change Kit, White

LEVITON®

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