## Smart Wallbox Sensors: Phase Cut Dimming

Cat. Nos. ODP10-I1W and ODP10-I1I



## WARNINGS

- TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.

# INSTALLATION INSTRUCTIONS

## ENGLISH

## **Product Description**

**Product Description** Leviton Cat. No. ODP10-I1, Wall Switch and Dimming Occupancy Sensor, is designed to easily switch and dim incandescent and dimmable LED or CFL bulbs while monitoring a room for occupancy using Passive Infrared (PIR) detection technology. A specialized lens divides the field of view into sensor zones. When a person passes into or out of a sensor zone, the sensor detects motion and switches the lights ON. Lighting levels can be manually adjusted using the dimming bar next to the switch. The lights will remain ON as long as there is an occupant moving through the sensor zones. ODP10-I1 can also be programmed to vacancy mode (Manual ON/Auto OFF) for installations where Manual ON switching is required for Title 24 applications. The ODP10-I1 provides a 180° field of view with a maximum coverage area of approximately 1100 square feet. The maximum sensing distance in front of the sensor is 30-40 feet, and 15-20 feet on either size. A "minor motion" zone detects small body movements and allows the lights to stay ON even though a person may not be moving or walking around the room. The remainder of the field of view, the "major motion" zone, exhibits a lesser degree of sensitivity and requires larger movements. Simple configuration can also be applied using push button setup for movements. Simple configuration can also be applied using push button setup for several popular preconfigured options. ODP10-I1 is also equipped with a photocell for daylighting which is programmable using the Leviton Smart Sensor App.

## Before Installation

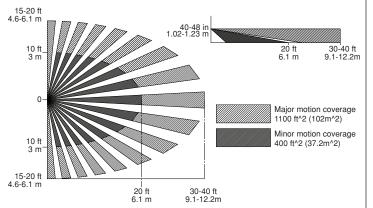
- Install into any single gang device wallbox.
- · Supports multi-gang installations.
- Installation wire must be rated at least 90°C.
  Ivory, light almond, black, red, and gray faceplates are available with a color change kit (sold separately).
- · Decora® wallplate not included

## FOR OPTIMAL PERFORMANCE:

The ODP10-I1 sensor lens establishes dozens of zones of detection. The sensor is sensitive to the heat emitted by the human body. In order to trigger the sensor, the source of heat must move from one zone of detection to another. The device is most effective in sensing motion across its field-of-view, and less effective sensing motion towards or away from its field-of-view. Keep this in mind when selecting the installation location. Note that occupancy sensors respond to rapid changes in temperature, so care should be taken not to mount the device near a climate control temperature, so care should be taken not to mount the device near a climate control source (i.e. radiators, air exchanges, and air conditioners). Hot or cold drafts will look like body motion to the device and will trigger it if the unit is mounted too close. It is recommended to mount the Occupancy Sensor at least 6 feet away from a climate control source. In addition, it is also recommended NOT to mount the Occupancy Sensor directly under a large light source. Large wattage bulbs (greater than 100W incandescent) give off a lot of heat and switching the bulb causes a temperature change that can be detected by the device. Mount the Occupancy Sensor at least 6 feet away from large bulbs. If it necessary to mount the device closer, lower the wattage of the bulb directly overhead.

## Horizontal Beam Diagram

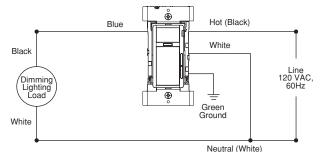
## Vertical Beam Diagram



## Installation

WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring!

1. Strip wires 0.75 in and connect as per wiring diagram. Ensure wires are firmly attached and there is no exposed copper.



- **2.** Gently place the wires and your device into the wall box and attach with screws provided. 3
- If desired, change switch color. (Sold separately.)
- Restore power and test ON/OFF operation. Locator light should be ON when switch is in the OFF state. 4

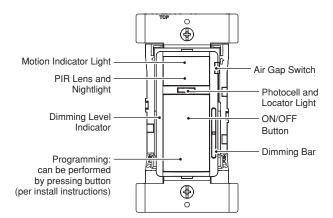
Install Decora<sup>®</sup> wallplate (not included).

· For indoor applications only.

SAVE THESE INSTRUCTIONS.

CAUTION

- 6. ODP10-I1 is designed to work and be fully functional right out of the box, settings can be adjusted using the Leviton Smart Sensor App or simple push button programming.
- Using the Leviton Smart Sensor App or push button programming, you can now configure the sensor to your preferred settings. (Leviton Smart Sensor App, downloadable from Google Play™ or the Apple App Store<sup>®</sup>, using any Bluetooth<sup>™</sup> enabled Android<sup>™</sup> or iOS Device). Operating mode, sensor sensitivity, and sensor timeout can be quickly adjusted. For more advanced settings such as daylighting and nightlight configuration, the Leviton Smart Sensor App will need to be used for setup and adjustments. 7.



## Operation

**PUSH-BUTTON:** ODP10-I1 has a push button switch that will toggle the lights ON or OFF. When mode is set to Auto ON / Auto OFF, the lights will automatically turn ON when occupancy is detected and will turn OFF automatically after occupancy is no longer detected and the timeout has expired. If mode is set to Manual ON / Auto OFF, the lights will only turn ON when the push button switch is pressed; the lights will turn OFF automatically after occupancy is no longer detected and the timeout has expired. If the lights are ON, the lights can be turned OFF when the button is pressed. The lights will stay OFF (regardless of motion detected) until the timeout expires. After the timeout expires, the lights will turn ON when the next motion is detected. This is useful for slide or film presentations.

DIMMING BAR: The lights can manually be dimmed up or down by pressing the dimming bar. To dim the lights down, press DOWN on the dimming bar and press UP to increase the brightness.

### NOTES

• The Motion Indicator light will blink RED for 1 second each time motion is detected. In Manual ON mode, the button must be pressed to turn the lights ON. In the absence of motion, the unit will time out and turn the lights OFF.

## Configuration and Programming

- 1. The ODP10-I1 Sensor is designed to work out of the box in default settings. Changes to these settings and additional product configuration can be performed using the Leviton Smart Sensor App, downloadable from Google Play or the Apple Store, using any Bluetooth enabled Android or iOS Device.
  - a. To pair to device using the Leviton Smart Sensor App:
    i. Press and hold the ON/OFF button for 2-5 seconds; when the light behind the PIR lens blinks BLUE, release the button.
    - ii
    - Open the Leviton Smart Sensor App and connect to the device. The device can also be found by scanning for nearby devices; devices can be identified in the app to confirm you are connected to the right sensor.
  - b. Use the Leviton Smart Sensor App to:
    i. Set operating mode to Auto ON/Auto OFF (default) or Manual ON/Auto OFF.
    ii. Adjust the sensitivity of the sensor to increase or decrease Field of view coverage area pending the room size (100% for larger spaces
    - approaching 1100 sq ft). Adjust timeouts (amount of time lights/load will turn OFF after occupancy is no longer detected). iii.
    - iv
    - Activate the night light and its operating mode; selection of custom night light color. Dimming configuration including partial ON and partial OFF levels and timeouts. Add daylighting and select target levels for daylighting. Set a security code to lock configuration. See Leviton Smart Sensor App for additional settings and other v. vi.
    - vii
    - viii
- programming options. 2. If the installer does not have access to a Bluetooth enabled Android or iOS Device, popular preset product configuration can also be made using simple push button commands:
  - a. Push the sensor button for 10-15 seconds (note: after 5 seconds, light behind PIR lens will blink BLUE and then alternate between BLUE and RED) and release when the PIR lens light is GREEN and the Locator Light is blinking GREEN. Push the button again to move to the next automatic setting using the table below as a guide.
  - b. When at the desired setting, press and hold the ON/OFF button again for 5 seconds (until the GREEN LOCATOR light turns ON), when the button is released, the light will flash the number of times as the setting selected; the sensor is now saved in that configuration.

NOTES

- Use the number of light blinks to determine which user mode the sensor is set to. I pressed more than 8 times, it will cycle back to the start of the list.
- Auto ON/Auto OFF (10 min timeout and 1 button press) is the DEFAULT MODE

Button Press	Locator Light Blinks	Operating Mode	Sensor Sensitivity	Timeout	Daylighting and Night Light
1 *Default operation	1	Auto ON / Auto OFF	75%	10mins	OFF & OFF
2	2	Auto ON / Auto OFF	75%	20mins	OFF & OFF
3	3	Auto ON / Auto OFF	100%	10mins	OFF & OFF
4	4	Auto ON / Auto OFF	100%	20mins	OFF & OFF
5	5	Manual ON / Auto OFF	75%	10mins	OFF & OFF
6	6	Manual ON / Auto OFF	75%	20mins	OFF & OFF
7	7	Manual ON / Auto OFF	100%	10mins	OFF & OFF
8	8	Manual ON / Auto OFF	100%	20mins	OFF & OFF

3. Daylighting and Night Light: The ODP10-I1 is equipped with a Photocell for Daylighting Hold-Off and also has a built in Night Light that can be turned ON and configured using the Leviton Smart Sensor App.

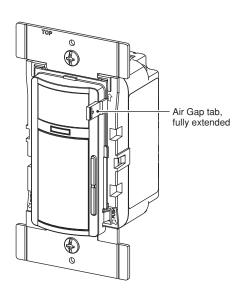
4. Bluetooth Reset: Resets any security settings but preserves lighting and mode settings.

- a. Push button on switch for approximately 20-25 seconds until the light behind PIR lens is flashing RED. NOTE: after 5 seconds, light behind PIR lens will blink BLUE and then
- alternate between BLUE and RED; at 10-15 seconds will then blink GREEN. b. When the light flashes RED, release the button.
- c. The device will reset and turn off when complete.
- d. When device turns back on, it will have no password set.

# Replacing Lamps or Bulbs

The ODP10-I1 utilizes an Air Gap Isolation feature when replacing a lamp(s) connected to the OPD10-I1 for safety.

- Using a fingernail, pull the Air Gap tab out, until fully extended (as shown below). This engages the Air Gap, which stops electricity from flowing to the connected load.
   After replacing the lamp(s), push the Air Gap Switch back into sensor so that it returns to the original position. Ensure it is flush with the surface of the Sensor/Dimmer.
- 3. The Sensor/Dimmer will return to its preset condition and is ready to operate.



## Troubleshooting

- If sensor does not trigger when entering the room or space, increase the sensitivity level of the sensor and/or check the daylighting settings (increase the davlighting level).

- If the lights constantly stay ON even when room is unoccupied:
  Check the Time Out setting and confirm set to desired time.
  Try lowering the sensor sensitivity; if problem persists, try lowering again.
  Check for reflected heat/motion as sensor may be seeing motion through available.
- a window. - Check for adjacent HVAC and/or heater ducts.

## STATEMENT CAUTION

ations not expressly approved by Leviton Manufacturing Co., could void the user's authority to operate the equipment.

FCC COMPLIANCE STATEMENT: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determ turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outled to a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

## IC STATEMENT

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference including interference that may cause undesired operation of the device.

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### RF EXPOSURE AND CO-LOCATION:

To comply with FCC OET Bulletin 65 and ISED RF exposure limits for general population / uncontrolled exposure this device should be installed and operated with a minimum distance of 7.9 inches (20 cm) between the radiator and your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

### FCC SUPPLIERS DECLARATION OF CONFORMITY

Smart Wallbox Sensors manufactured by Leviton Manufacturing, Inc., 201 N Service Road, Melville, NY, http://www.Leviton.com. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Bu Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

Linited by the product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty evalues and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty will allot. This warranty is required by the applicable jurisdiction, the duration of any such implied warranty is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranty is for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tor or otherwise.

SPECIFICATIONS					
Input Voltage/Frequency	120VAC, 60Hz				
Input Current	120V Standby: 0.2W Max: 0.5W+Load Power				
Purpose of Control	Energy Management Equipment				
IP Rating	IP10				
Network Connections	BLE 4.2, BLE 5.0				
Storage Temperature	-20°C to 85°C (-4°F to 185°F)				
Pollution Degree	2				
Impulse Voltage	2500V				
Action Type	1				
Disconnection Type	Micro				
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LOAD RATINGS							
	Single	Two Devices	More than 2 Devices				
LED,CFL, Electronic Ballast @ 120V	1000W	680W	600W				
Magnetic Ballast @ 120V	1000W	680W	600W				
Resistive, Tungsten @ 120V	1000W	680W	600W				
Motor @ 120V	Not rated for use	Not rated for use	Not rated for use				