

Smart Wallbox Sensors: 10A Switch – Universal Design



Cat. No. ODS15-IDx

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.

CAUTIONS

- For indoor applications only.
- To avoid damage to the product, DO NOT use disinfecting products, including foggers, sprays or other types of atomized cleaning agents. DO NOT spray liquid onto the product. To clean, use a damp cloth with mild soap.
- **SAVE THESE INSTRUCTIONS.**

PK-A3316-10-00-2B-X1

INSTALLATION INSTRUCTIONS

ENGLISH

Product Description

Leviton® Cat. No. ODS15-ID, Wall Switch Occupancy Sensor, uses Passive Infrared (PIR) detection technology to monitor a room for occupancy through a segmented lens. This 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. The lights will remain ON as long as there is an occupant moving through the sensor zones. ODS15-ID can also be programmed to vacancy mode (Manual-ON/Auto-OFF) for installations where manual-ON switching is required. The ODS15-ID provides a 180° field-of-view with a maximum coverage area of approximately 1100 square ft. The maximum sensing distance in front of the sensor is 30-40 ft., and 15-20 ft. 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. Configuration is made using the Leviton Smart Sensor App from your smartphone or other Bluetooth™ enabled Android™ or iOS device. Simple configuration can also be applied using push-button setup for several popular pre-configured options. ODS15-ID is also equipped with a photocell for daylighting hold-off which is programmable using the Leviton Smart Sensor App. ODS15-ID can be used in applications with or without a Neutral wire.

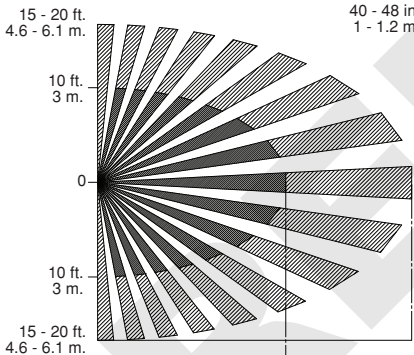
Before Installation

- Installs into standard single gang wall boxes.
- Supports multi-gang installations.
- Decora® wallplate not included.
- Supports 3-way (or more) installations

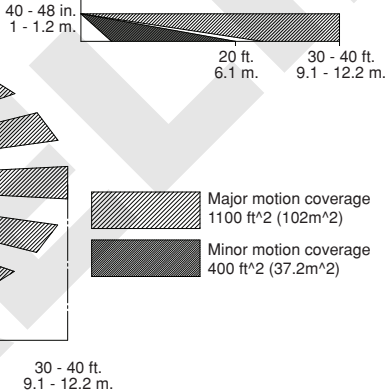
For Optimal Performance:

The ODS15-ID 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 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 ft. 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 ft. 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



SPECIFICATIONS	
Input Voltage/Frequency	120-277VAC, 50/60Hz
Input Current	
120V	Standby: 0.2W Max: 0.5W+Load Current
277V	Standby: 0.3W Max: 0.6W+Load Current
Load Ratings	
LED, CFL, Electronic Ballast @ 120V	10A
LED, CFL, Electronic Ballast @ 277V	10A
Magnetic Ballast @ 120V	10A
Magnetic Ballast @ 277V	10A
Resistive, Tungsten @ 120V	6.67A
Resistive, Tungsten @ 277V	6.67A
Motor @ 120V	1/4Hp (FLA 5.8A)
Motor @ 277V	1/3Hp (FLA 3.0A)
IP Rating	IP20
Network Connections	BLE 5.0
Operating Temperature	0°C to 40°C (32°F to 104°F)*
Storage Temperature	-20°C to 85°C (-40°F to 185°F)
Purpose of Control	Energy Management Equipment
Action Type	1
Pollution Degree	2
Impulse Voltage	4000V

\* If product is installed in the environment above 25°C, building installation wire must be rated 105°C

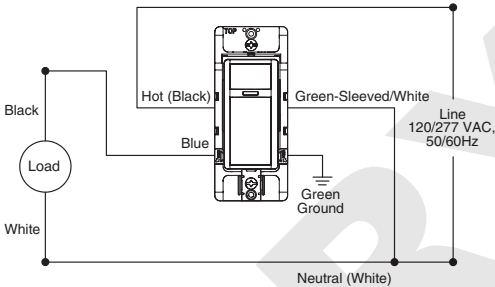
Installation

**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 3/4 in. and connect as per wiring diagram.

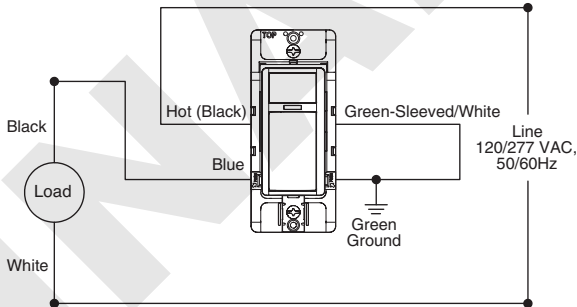
If Neutral Wire is Present in Wall Box:

Remove green-sleeve and connect WHITE to NEUTRAL.



If No Neutral Wire is Present in Wall Box:

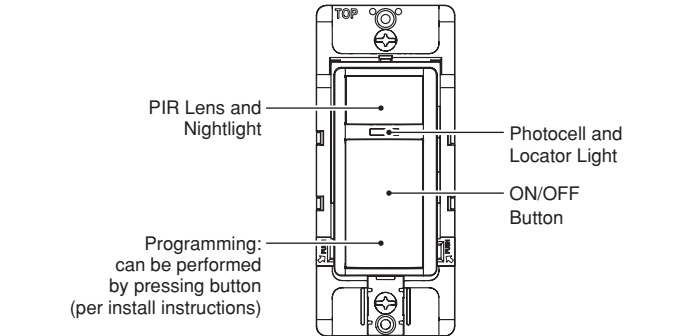
Connect both GREEN-SLEEVED wire and GROUND wire to GROUND. Ensure wires are firmly attached and there is no exposed copper.



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).
4. Restore power and test ON/OFF operation. Locator light should be ON when switch power is turned OFF.
5. Install Decora wallplate (not included).
6. ODS15-ID 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.
7. Using the Leviton Smart Sensor App or push button programming, you can now configure the sensor to your preferred settings. (The Leviton Smart Sensor App, is downloadable from Google Play™ or the Apple App Store®, using any Bluetooth enabled Android 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.
8. Additional Smart wall box Sensors can be added to the room for 3-way, 4-way, or greater applications. The devices can be linked together to control the room in unison and expand the FOV coverage. Forming a system is simple using Leviton's Push to Pair (P2P) technology. A system of up to 5 devices can be built. To form the system:
  - a. Ensure all devices are powered up and can control their own load where necessary. **NOTE:** Additional devices can also act as a remote and do not need to control a load.
  - b. Press the ON/OFF button of one of the devices for 15 seconds and release the button when the LED blinks YELLOW. **NOTE:** After 5 seconds, light behind PIR lens will blink BLUE and then alternate between BLUE and RED before blinking YELLOW.
  - c. The Network is created/opened successfully when the device blinks BLUE/YELLOW. **NOTE:** wait to add additional device(s) until the initial device blinks BLUE/YELLOW; If there is more than one device already in the network, all devices in network will blink BLUE/YELLOW when the network is opened successfully.
  - d. Go to additional device(s) you want joined to the initial device, and press the ON/OFF button until the LED blinks yellow. **NOTE:** only one room should go through P2P process at a time to avoid accidentally adding device(s) from adjacent rooms.
  - e. Repeat as necessary for other devices (maximum of 5 devices).
  - f. The P2P process is complete when the LED on the newly added device(s) blinks BLUE/YELLOW pattern and the load turns ON.

About Push to Pair (P2P):

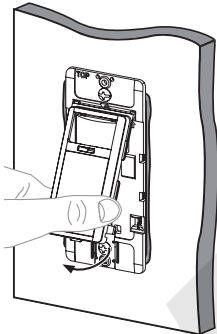
- The P2P pairing process takes about 30 seconds to complete and the P2P enrollment process times out after 2 minutes. If you are not successful the first time, try again.
- If ON/OFF button is not released while LED is blinking YELLOW (between 15-20 seconds), the LED will then start blinking RED (between 20-25 seconds). Release the button and start over.
- Additional devices do NOT need to be on the same circuit, they will connect and operate together remotely. Additional devices do not need to be tied to a load and can act as a remote.
- For 3-way or more applications, the additional sensors can be used to expand zone capacity; sensitivity can be configured for each device based on room size and targeted FOV coverage.
- Additional devices can be added at any time—just repeat the process above to add additional devices to your system.
- If a device needs to be removed from the system, reset Bluetooth following the instructions under Configuration and Programming instructions.
- If unsuccessful pairing devices, try resetting the Bluetooth for each device; see Bluetooth reset under Configuration and Programming instructions.



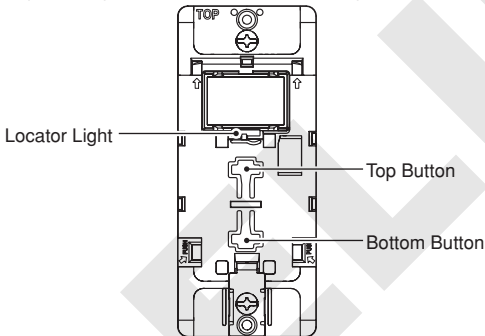
Configuration and Programming

1. The ODS15-ID 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 App 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 roughly 5 seconds; when the LED behind the PIR lens blinks BLUE, release the button.
  - ii. Open the Leviton Smart Sensor App and connect to the device.
  - iii. 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.).
  - iii. Adjust timeouts (amount of time lights/load will turn OFF after occupancy is no longer detected).
  - iv. Activate the night light and its operating mode; selection of custom night light color.
  - v. Add daylighting and select target levels for daylighting.
  - vi. Set a security code to lock configuration.
  - vii. See Leviton Smart Sensor App for additional settings and other programming options.

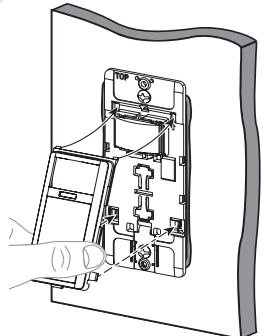
2. If the installer does not have access to a Bluetooth enabled Android or iOS device, product configuration can also be made using simple push button commands:
- a. If wall plate is attached, remove first. With the wallplate removed, pinch sides of sensor near bottom tabs to release front cover of sensor.



- b. With the front faceplate of the sensor removed, push both buttons on front of sensor simultaneously for 10-15 seconds (note: after 5 seconds, a light will blink BLUE and then alternate between BLUE and RED) and release when the Locator Light and light behind PIR lens are blinking GREEN.



- c. Push the bottom button to move to the next automatic setting using the table to the right as a guide.
- d. When at the desired setting, press and hold the bottom 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.
- e. The front cover can now be reattached. Insert the top tabs and push in bottom tabs to attach.



NOTES:

- Use the number of LED blinks to determine which user mode the sensor is set to. If 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.

3. **Daylighting and Night Light:** The ODS15-ID 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:** Between 5-10 seconds the LED will alternate between BLUE and RED; at 15 seconds the LED will blink YELLOW.
- 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.

Operation

**PUSH-BUTTON:** ODS15-ID 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.

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.

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 daylighting 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 a window.
  - Check for adjacent HVAC and/or heater ducts.

INDICATOR LIGHT DESCRIPTIONS		
LED	Location	Action / Definition
RED	Behind PIR Lens	Blinks ON for 1 second upon PIR detection.
RED	Behind PIR Lens	Blinking RED: Device in Bluetooth reset; continues until reset is complete then stops.
BLUE	Behind PIR Lens	Blinking BLUE LED: Device BLE in Pairing Mode.
BLUE / RED	Behind PIR Lens	Alternating BLUE/RED: Device in Installation/Test Mode.
GREEN	ALL	GREEN light behind PIR lens / Locator LED blinking according to Menu Mode: Device is in Manual Configuration mode, number of LED blinks shows which mode device is in.
GREEN	Behind PIR Lens	Blinking GREEN LEDs indicates device is in identify mode.
GREEN / BLUE	Behind PIR Lens	Alternating GREEN/BLUE during 1 minute Daylighting Hold-Off Calibration.
GREEN / BLUE	Behind PIR Lens	GREEN/BLUE blinks for 2 seconds every 30 seconds when Daylighting is active.
YELLOW	Behind PIR Lens	Blinking YELLOW LED indicates device is in mesh pairing mode.
YELLOW / BLUE	Behind PIR Lens	Alternating YELLOW / BLUE indicates device(s) have joined a network.

Button Press	Green LED 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

Cleaning Instructions:

- To clean use a damp cloth with mild soap.
- DO NOT use disinfecting products, including foggers, sprays or other types of atomized cleaning agents.

Statement Caution

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

FCC & IC COMPLIANCE STATEMENT:

This device complies with Part 15 of the FCC Rules and ISCED License-exempt RSS standard(s). This Class B digital apparatus complies with Canadian CAN ICES-3(B)/NMB-3(B) 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. Changes or modifications not expressly approved by Leviton could void the user's authority to operate the equipment. These limits are designed to provide reasonable protection against harmful interference in a commercial 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 to radio 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 determined by 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 outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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RF EXPOSURE AND CO-LOCATION:

To comply with FCC OET Bulletin 65 and ISCED 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 Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this 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](http://www.leviton.com) or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, 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 particular purpose, is limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

# ARTWORK PRINT SPECIFICATIONS

**LEVITON**®

**PART NUMBER** PK-A3316-10-00-2B-X1 **REV** **DESCRIPTION** Instruction Sheet

\* Artwork must be printed at 100% (1:1 scale)

## Material Specifications: North America Suppliers

- \* Thickness: 0.0040/ 0.0038
- \* Material: 20lb Bond / 50lb Offset Paper
- \* Recycled Content: N/A
- \* Exterior Brightness: 95/ 89-92
- \* Finish: N/A/ Smooth or Vellum

## Material Specifications: Asia Suppliers

- \* Thickness: 0.003/ 0.0027
- \* Material: 55G / 60G Offset Paper
- \* Recycled Content: N/A
- \* Exterior Brightness: 90
- \* Finish: N/A

\* For manuals - designates cover specifications

## Color:

No. of Color(s): 1 over 1

- 1: Black ☐ Spot
- 2: ☐ CMYK
- 3: ☐
- 4: ☐

## Fonts:

- 1: Helvetica
- 2:
- 3:
- 4:

## Die Line Key:

- Perforate ☐ Die Cut ☐ Fold Line
- Kiss Cut ☐ Cellophane ☐ Glue

## MANUAL INTERIORS / BINDERY / FOLD SCHEME :

Body Material:

Thickness:

### Bindery

- ☐ Die cut ☒ Fold ☐ Saddle Stitch
- ☐ Perfect Bind ☐ Drill ☐ Trim

No. of Color(s): over

- 1: ☐ Spot
- 2: ☐ CMYK
- 3: ☐
- 4: ☐

## Fonts:

- 1:
- 2:
- 3:
- 4:

## PROCESS :

- ☒ Offset ☐ Flexo

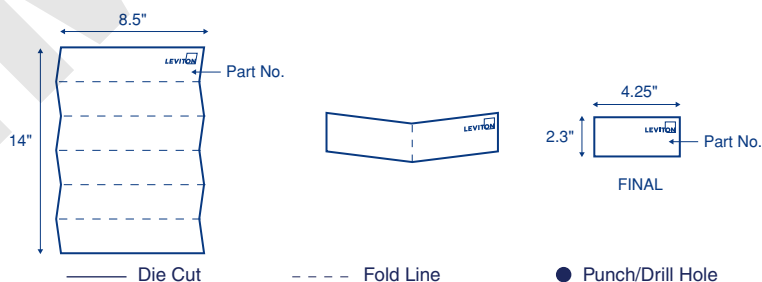
☐ Other

Line Screen:

Angle:

Resolution:

## DIMENSIONS / FOLD SCHEME / BINDERY DIAGRAM



## COMMENTS :

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- ☐ Cust ☒ Other M. Blonder ☒ Other V. LoNigro

PN-ARN: EM0403-7911

ECR Number:

Pilot Rev:

Artist: C.Erdmann

Released Artwork Format: Production PDF

Artwork Release Date:

Notes:

- ☐ Vector Photo ☐ Color Corrected Photo