

# Decora® Wall Switch PIR Occupancy Sensor



ODS10-ID

## BASIC OPERATION

The Leviton Decora® Wall Switch Passive Infrared (PIR) Occupancy Sensor (ODS10-ID) uses passive infrared (PIR) detection technology to monitor a room for occupancy through a segmented Fresnel 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.

## APPLICATIONS

The ODS10-ID is used to provide automatic lighting control for energy savings and convenience in a variety of commercial applications, including:

- Small offices
- Lounges
- Conference rooms
- Classrooms

The ODS10-ID can be used for automatic switching of LED, incandescent lamps and fluorescent and low-voltage lighting with electronic or magnetic ballasts. The unit also features a manual override switch that can be used to keep lights OFF while an area is occupied, which may be desired in conference rooms and other areas during slide or film presentations. The unit installs in place of a single-pole wall switch and fits in a standard wall box. The unit requires a ground connection.

## FEATURES

- Fits in standard wallbox and replaces single-pole wall switch. Gangable with other units.
- Low-profile design eliminates obtrusive “scanning-device” look. Elegant Decora wallplates complement any interior for sleek aesthetics; uses Decora wallplates and coordinates with Leviton’s popular line of Decora wiring devices.
- 180° field-of-view provides approximately 2,100 square feet of coverage suitable for small offices, conference rooms, classrooms, lounges and a variety of commercial areas
- Convenient pushbutton provides manual-ON/OFF light switching at any time
- Two dual element PIR sensors used to widen detection range
- Segmented Fresnel lens provides optimum sensitivity and performance. Designed with an extensive “minor motion” area where even slight body movements will be detected.
- Vandal resistant PIR lens
- Blinders—horizontal field-of-view may be adjusted between 180° and 60° of arc by using integral blinders located on either side of the lens, no masking tape required
- Manual-ON/auto-OFF mode for installations where manual-ON switching is required but auto-OFF switching is still desired
- A red LED indicator light flashes when sensor detects motion to verify detection is active and can be used to comply with 2016 Title 24, Part 6 occupancy sensing requirements
- Time Delay adjustment for delayed-OFF time settings of 30 seconds (for walking test), 10 minutes, 20 minutes and 30 minutes. Allows customized adjustments to maximize energy savings.
- Light Sensor Adjustable Ambient Light Override ranges from approximately 2FC (20LUX) to 500+ FC (5,000+ LUX) to prevent lights from turning ON automatically during periods of ample natural light, increasing energy savings
- Light sensor enables the load hold-OFF feature once level has been set
- False detection circuitry
- Presentation Mode feature for slide or film presentations allows push buttons to turn lights OFF and keep them OFF while the room is occupied

## Leviton Manufacturing Co., Inc. Global Headquarters

201 North Service Road, Melville, NY 11747-3138 tech line 800-824-3005 fax 800-832-9538

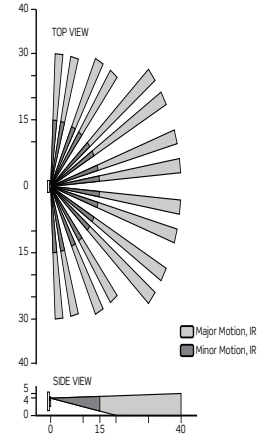
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## PRODUCT DATA

- One unit can be used for 120V through 277V lighting. Compatible with both electronic and magnetic ballasts.
- Relay switches at the zero crossing point of the AC power curve to ensure maximum contact life and compatibility with electronic ballasts
- Exclusive Leviton High Inrush Stability (H.I.S.) Circuitry—specifically designed to handle today's high inrush electronic ballast loads and offer unmatched durability and service
- The no neutral design is optimal for retrofit applications

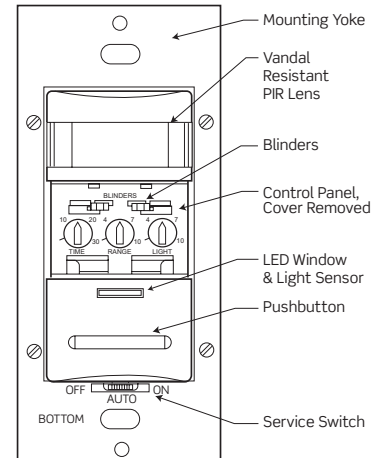
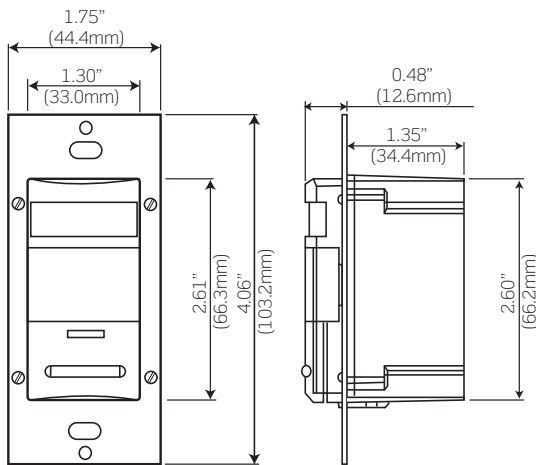
### FIELD-OF-VIEW

The ODS10-ID provides a 180° field-of-view with a maximum coverage area of approximately 2,100 square feet. The maximum sensing distance in front of the sensor is 40 feet, and at each side is 30 feet. A “minor motion” zone detects relatively 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.

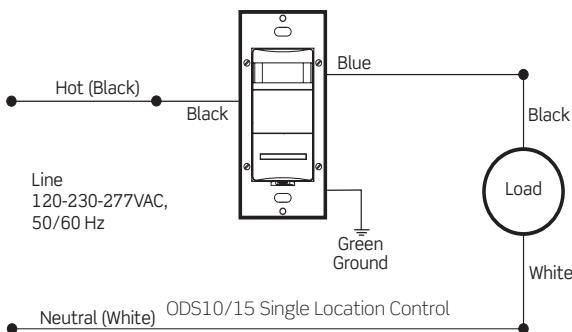


ODS10-ID  
Field-of-View (in feet)

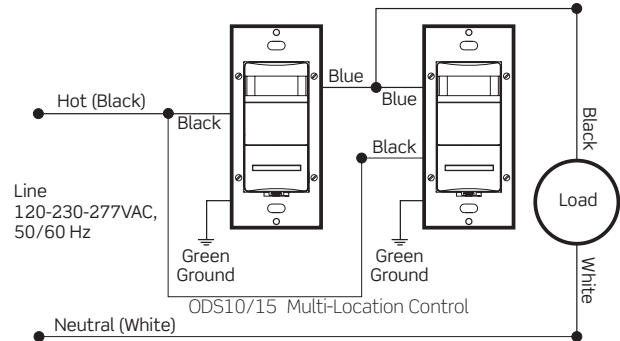
### DIMENSIONAL DIAGRAMS



### WIRING DIAGRAM



Note: Ground must be connected



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**INSTALLATION**

The ODS10-ID may replace a single-pole wall switch mounted in a standard wallbox. The unit must be properly grounded in order to operate. The unit's integral blinders may be used to restrict the field-of-view to prevent unwanted detection of hallway traffic. It should be positioned at least 6 feet away from HVAC registers. Note that whenever the unit is powered up, it will take approximately one minute to begin normal operation.

<b>ELECTRICAL</b>	
<b>Line Voltage</b>	120-230-277 VAC
<b>Standby Power</b>	120V - 100mW 277V - 250mW
<b>Operational Frequency</b>	50/60 Hz
<b>Wire Designation</b>	Line—Black, Load—Blue, Ground—Green, No Neutral required
<b>Load Rating</b>	Fluorescent: 1200VA @ 120V 2700VA @ 277V Incandescent: 800W @ 120V Motor: 1/4 HP @ 120V
<b>Minimum Load</b>	None required
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	32-122°F (0-50°C)
<b>Storage Temperature Range</b>	14-185°F (-10-85°C)
<b>Relative Humidity</b>	20% to 90% non-condensing
<b>OTHER</b>	
<b>Listings</b>	UL listed/CSA certified, can be used to comply with ASHRAE 90.1 and 2016 Title 24, Part 6 occupancy sensing requirements and meets FCC regulations, NOM certified
<b>Energy Codes</b>	Can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy sensing requirements
<b>Warranty</b>	Limited Five-Year Warranty

**ORDERING INFORMATION**

<b>CAT. NO.*</b>	<b>DESCRIPTION</b>
<b>ODS10-ID</b>	Decora Wall Switch Occupancy Sensor

To indicate color, add suffix to the end of the catalog number.  
 White (-W) , Ivory (-I), Light Almond (-T), Gray (-G), Ebony (-E), and Red (-R).  
 \*Made in USA with globally sourced components and NAFTA compliant models available.

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

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**Visit our Website at: [www.leviton.com/sensors](http://www.leviton.com/sensors)**

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