

Decora® Wall Switch PIR Occupancy Sensor Auto-ON/Auto-OFF Only



ODS10-IQ

BASIC OPERATION

The Leviton Decora® Wall Switch Passive Infrared (PIR) Occupancy Sensor - auto-ON/ auto-OFF Only (ODS10-IQ) uses passive infrared 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 automatically switches the lights ON. Lighting will remain ON for the specified time-delay after the sensor motion is detected; an occupant moving through the sensor zones resets the time-delay to keep the lights ON. Once the specified time-delay has expired, the sensor will automatically turn the lights OFF.

APPLICATIONS

The ODS10-IQ is used to provide automatic lighting control for energy savings and convenience in specialized applications where it would not be desirable to have the lights turned OFF by an occupant utilizing the space, including:

- Public restrooms
- School restrooms
- Recreational rooms
- Mechanical rooms

The ODS10-IQ can be used for automatic switching of LED, incandescent lamps and fluorescent and low-voltage lighting with

electronic or magnetic ballasts. The ODS10-IQ models operate in automatic switching mode only (auto-ON/ auto-OFF). 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
- 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
- Red LED indicator light flashes when sensor detects motion to verify detection is active.
- 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 lamp life and 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
- Vacancy confirmation—when the time out expires and the lights turn OFF a 30 second vacancy confirmation exists to turn the lights back ON
- False detection circuitry
- One unit can be used for 120V through 277V lighting. Compatible with both electronic and magnetic ballasts

Leviton Manufacturing Co., Inc. Global Headquarters

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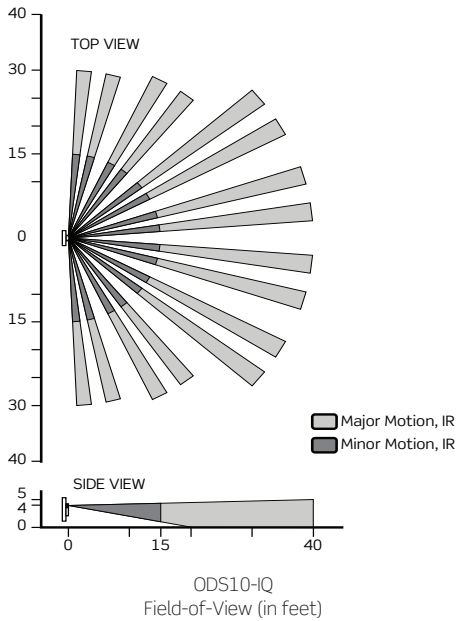
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PRODUCT DATA

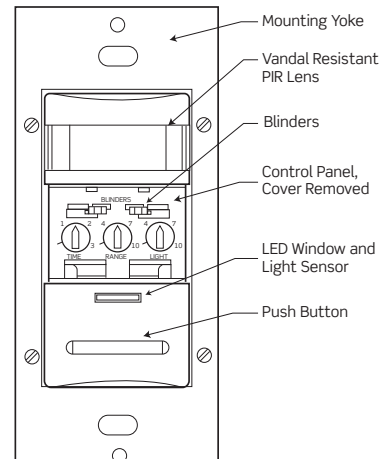
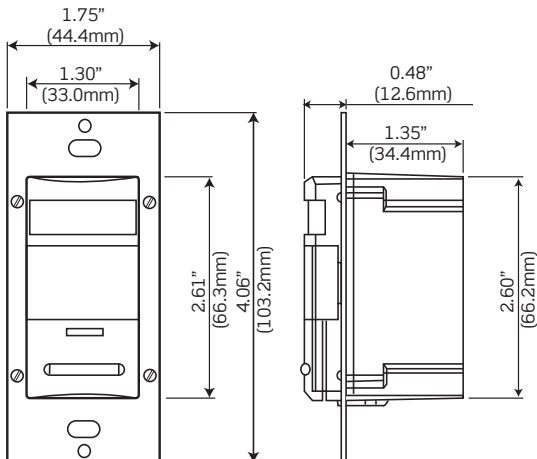
- Relay switches at the zero crossing point of the AC power curve to ensure maximum contact life and compatibility with electronic ballasts
- Exclusive Leviton High Inrush Stability (H.I.S.) Circuitry—specifically designed to handle today's high inrush electronic ballast loads and offer unmatched durability and service

FIELD-OF-VIEW

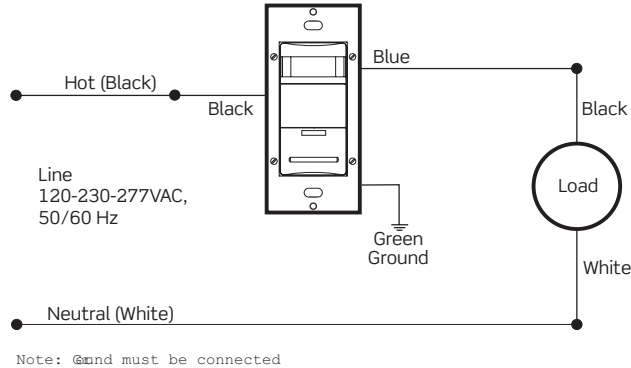
The ODS10-IQ provides a 180° field-of-view with a maximum coverage area of approximately 2,100 square feet. The maximum sensing distance in front of the sensor is 40 feet, and at each side is 30 feet. A “minor motion” zone detects relatively small body movements and allows the lights to stay ON even 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.



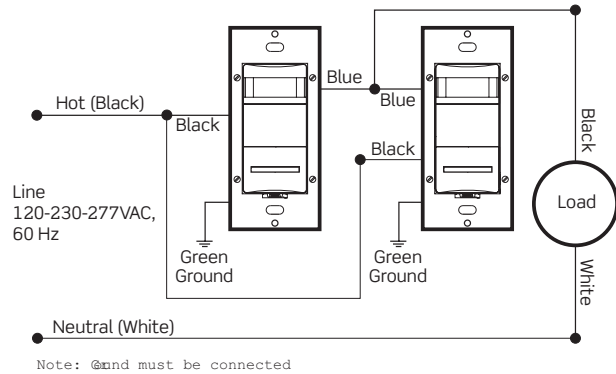
DIMENSIONAL DIAGRAMS



WIRING DIAGRAM



ODS10 Single Location Control



ODS10 Multi-Location Control

INSTALLATION

The ODS10-IQ 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.

ELECTRICAL	
Line Voltage	120-230-277 VAC
Standby Power	120V - 100mW 277V - 250mW
Operational Frequency	50/60 Hz
Wire Designation	Line — Black, Load—Blue, Ground— Green, no neutral required
Load Rating	Fluorescent: 1200VA @ 120V - 2700VA @ 277V Incandescent: 800W @ 120V
ENVIRONMENTAL	
Operating Temperature Range	32-122°F (0-50°C)
Storage Temperature Range	14-185°F (-10-85°C)
Relative Humidity	20% to 90% non-condensing
OTHER	
Listings	UL/cUL listed
Energy Codes	Can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy sensing requirements
Warranty	Limited Five-Year Warranty

ORDERING INFORMATION

CAT. NO.*	DESCRIPTION
ODS10-IQ	Decora Wall Switch Occupancy Sensor— auto-ON/auto-OFF only

To indicate color, add suffix to the end of the catalog number.

White (-W) , Ivory (-I), and Ebony (-E).

*Made in USA with globally sourced components and NAFTA compliant models available.

ODS10

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

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