

APPLICATION

Leviton's Cat No. IPP10-1L Decora® Manual-ON Occupancy Sensor acts like a standard wall switch and complies with the California Title 24 Residential Lighting Standards for 2005. It has the added energy savings benefit that if you forget to turn the lights OFF, the lights will turn OFF automatically if motion is not detected within the coverage area. The Manual-ON Occupancy Sensor can be used in a variety of residential applications including:

Bathrooms	Basements	Bedrooms
Garages	Utility/Laundry Rooms	Dining Rooms
Hallways	Living/Family Rooms	Kitchens

The unit installs in place of a single-pole wall switch and fits in a standard wallbox. The unit can be used for switching incandescent and fluorescent and low voltage lighting with electronic or magnetic ballasts.

OPERATION

The IPP10-1L uses passive infrared (PIR) detection technology to monitor a room for vacancy through a segmented Fresnel lens. This specialized lens divides the field of view into sensor zones. After the switch is manually turned ON, when a person passes into or out of a sensor zone, the sensor detects motion and keeps the lights ON. The lights will remain ON as long as there is an occupant moving through the sensor zones.

A delayed-OFF time adjustment prevents the lights from switching OFF when the space is occupied. In order to keep the lights ON, a person must pass through a sensor zone at least once during the selected delayed-OFF time interval. An LED indicator blinks each time the unit detects activity in the sensor zones. When the space being monitored by the sensor is unoccupied for the length of time chosen as the delayed-OFF interval, the unit will switch the lights OFF. If motion is detected within 30 seconds after the lights have turned OFF, the lights will turn back ON. If no motion is detected within 30 seconds, the lights will remain OFF and will need to be turned back ON manually.

To ensure longer service life and compatibility with electronic ballasts, the device carefully times its switching contact opening and closing with the zero crossing point of the AC power curve. This minimizes contact wear caused by in-rush currents from electronic ballasts.



Cat. No. IPP10-1L

Manual-ON Operation

The unit will not turn lights ON automatically when motion is detected. Lights can only be turned ON by manually pressing the push-button. The lights will remain ON as long as the unit detects activity in the sensor zones.

Auto/Manual-OFF Operation

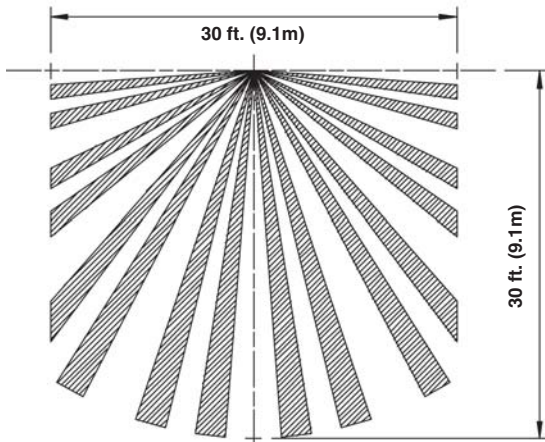
The IPP10-1L will shut lights OFF automatically after the space becomes vacant and the delayed-OFF time expires. Lights also can be turned OFF manually at any time by pressing the push-button.

LEVITON SPECIFICATION SUBMITTAL

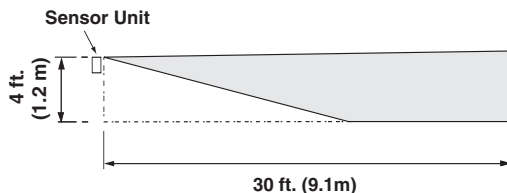
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FIELD OF VIEW

The IPP10-1L provides a 180° field of view with a maximum coverage area of approximately 900 square feet. The maximum sensing distance in front of the sensor is 30 feet; at each side is 15 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.



TOP VIEW



SIDE VIEW

ENHANCED ADJUSTMENT OPTIONS

The IPP10-1L will deliver optimum performance in a wide variety of residential applications. There are optional adjustments for sensitivity, delayed-OFF time, and field-of-view. These adjustments will customize the performance to meet the needs of a specific installation. To avoid tampering, all adjustments must be accessed by removing the control panel cover under the wallplate. A small flat-head screwdriver can be used to adjust the control knobs, and the field-of-view blinders are finger-tip operated. Controls are labeled as follows:

Blinders

Integral sliding blinders on each side of the lens may be used to restrict the 180° field of view down to 32°. This will prevent unwanted detection in areas such as hallways.

Time

The delayed-OFF time is preset at 10 minutes. A choice of four delayed-OFF time settings is available: 30-seconds (for walking test purposes only), 10 minutes, 20 minutes, and 30 minutes.

Range

The range can be adjusted from 100% to 36% of the total coverage area. This allows the unit to ignore motion at the far end of its range and avoid keeping the lights ON unnecessarily.

LEVITON SPECIFICATION SUBMITTAL

JOB NAME:

JOB NUMBER:

CATALOG NUMBERS:

SPECIFICATIONS:

The device listed herein shall be a Decora® Manual-ON Occupancy Sensor, capable of detecting infrared emissions from human presence and responding by keeping incandescent, low-voltage, and fluorescent lighting loads ON. If this unit does not detect movement after a preset period of time, it will respond by switching its assigned load OFF. The unit shall switch at the zero crossing point of the AC power curve to ensure maximum relay contact life and compatibility with electronic ballasts.

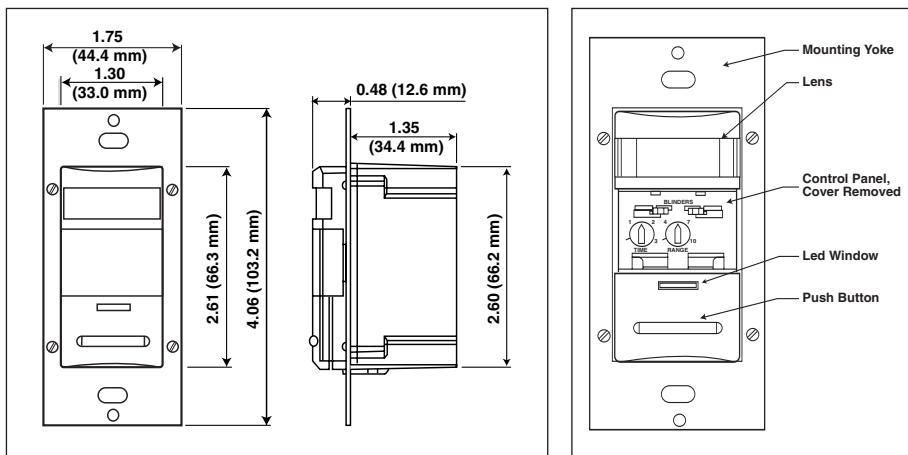
The Manual-ON Occupancy Sensor shall be equipped with a push-button to provide manual ON/OFF switching in accordance with California Title 24 requirements. The Sensor shall feature adjustable delayed-OFF time as well as provide sensitivity adjustment and integral sliding blinders to customize the horizontal field of view. The unit shall be capable of providing optional Manual-ON/Automatic-OFF operation. If motion is detected within 30 seconds after the load has been turned OFF due to the absence of motion, the lights will turn back ON. If 30 seconds expires, the lights (load) will need to be turned ON manually.

FEATURES AND BENEFITS

- Manual-ON/Automatic OFF operation in accordance with California Title 24 2005 requirements.
- Low-profile design eliminates an obtrusive "scanning-device" look. Elegant Decora styling compliments any interior and coordinates with Leviton's popular line of Decora wiring devices.
- 180° field-of-view provides approximately 900 square feet of coverage suitable for bathrooms, basements, garages, utility rooms, and a variety of other residential areas.

- Convenient push-button provides Manual ON/OFF light switching at any time.
- Segmented Fresnel lens provides optimum sensitivity and performance. It is designed with an extensive "minor motion" area where even slight body movements will be detected.
- Horizontal field of view may be adjusted between 180° and 32° of arc by using integral blinders located on either side of the lens.
- Four optional manual adjustments for delayed-OFF time settings maximize energy savings: 30 seconds (for walking test), 10 minutes, 20 minutes and 30 minutes.
- LED indicator light flashes when sensor detects motion to verify detection is active.
- Unit can be used for 120V 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.
- Fits in standard wallbox and replaces single-pole wall switch. Gangable with other units.
- Requires a neutral (white) wire connection.
- UL Listed and CSA Certified, complies with California Title 24 2005 Energy Code and FCC regulations
- Five-Year Limited Warranty

DIMENSIONAL DIAGRAMS



Cat. No. IPP10-1L

LEVITON SPECIFICATION SUBMITTAL

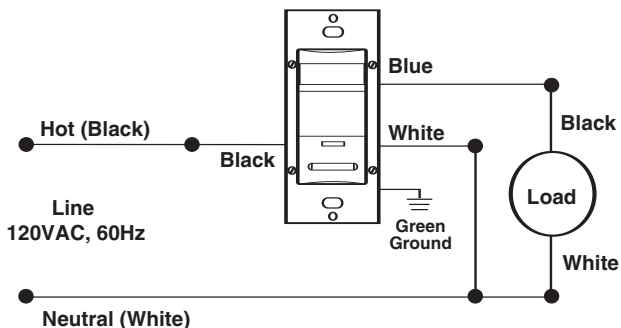
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INSTALLATION

The IPP10-1L is a single-pole one location switch that requires a neutral (white) wire connection that mounts in a standard wallbox. 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. Obstructions such as furniture, windows, glass shower doors, etc. may prevent the sensor from detecting motion.

Note: When the unit is powered up, it will take approximately one minute to begin normal operation.

WIRING DIAGRAM



Cat. No. IPP10-1L

PHYSICAL SPECIFICATIONS

Operating Temperature Range	0°C to 50°C
Storage Temperature Range	-10°C to 85°C
Relative Humidity	20% to 90% non-condensing
Agency Approval	UL Listed/CSA Certified/NOM Complies with California Title 24 2005 Energy Code Complies with FCC Regulations

ELECTRICAL REQUIREMENTS

Line Voltage	120 VAC
Operational Frequencies	60Hz
Wire Designation	Line—Black Load—Blue Neutral—White Ground—Green
Load Rating	Fluorescent: 1200VA @ 120V Incandescent: 800W @ 120V Motor: 1/4 HP @ 120V

WARRANTY INFORMATION: Five-year limited warranty

ORDERING INFORMATION

Cat. No. Ivory	Cat. No. White	Cat. No. Almond	Description
IPP10-1LI	IPP10-1LW	IPP10-1LA	Decora® Manual-ON Occupancy Sensor, 120V rating

Note: Features and specifications are subject to change.



SPECIFICATION SUBMITTAL

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JOB NUMBER:		