

Passive Infrared Ceiling Occupancy Sensor



BASIC OPERATION

The OSCxx-IoW Infrared Ceiling Sensor is a low voltage occupancy sensor that works in conjunction with the Leviton OSPxx Power Pack to control lighting. The sensor's main function is to turn the lights ON or maintain the lights ON while movement is detected within the sensor's range and to turn the lights OFF when the space is left unoccupied.

The sensor uses a Dual Element PIR heat detector that resides behind a multi-zone optical lens. This Fresnel 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 sensing to another. Non-moving hot objects will not cause the lights to turn ON (like incandescent lights).

APPLICATIONS

- Classrooms Utility closets
- Conference rooms
- Copy rooms Hallways
- Small offices
- Open areas Private restrooms Storage rooms
- Vending rooms Open warehouses Workspaces

FEATURES

- Fast, Simple Installation: Easy base mount, three wire connection (low voltage) and twist-and-lock detector attachment.
- Self-Adjusting: Internal microprocessor continually analyzes, evaluates and adjusts the infrared sensi-

- tivity and time delay. Performance is kept at a maximum and user complaints are eliminated.
- Flexible Base Mounting: Supplied twist-and-lock base mount permits fast alignment. Supplied cover hides mounting hardware and wires. Can be used with raceways for hard surface installations.
- Range & Coverage: 450 sq. feet and 1,500 sq. feet models available
- Maximum Reliability, Low Cost: All digital circuitry uses a minimum of components.
- Power base (OPB 15) available for line voltage applications.
- Ambient Light Recognition: A Light Sensor prevents lights from turning on when the room is adequately lit by natural light.
- Non-Volatile Memory: Learned and adjusted settings saved in protected memory are not lost during power outages.
- Timer Setting Feature: Automatic 30sec 30min. Test mode - 6sec with auto exit programming.
- PIR Masking: Pre-scored masking disks are provided with the device for fine tuning the field-of-view.
- Walk-Through: Provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space.
- High Motion Sensitivity: Large lens area and multi-element lens design gives excellent range and sensitivity.
- Custom off-white color matched for shaded ceilings and most common ceiling tiles.
- Device: Rugged, high-impact, injection molded plastic. Color coded leads are 6" long (16.24 cm)

HOW THE OSC04-I/OSC15-I AUTOMATICALLY ADAPTS

Condition	Example	Self-Adaptive Reaction
Timer Left In Test Mode - The sensor remains in an 6 sec. test mode.	An installer accidentally leaves the sensor in the 6 sec. timer test mode and the lights may go off or on every 6 sec.	The sensor automatically resets the timer to 10 min after 15 min of test mode.
False-On - The sensor incorrectly turns the lights on.	The sensor detects movement in the corridor or hall way and the room lights turn on.	After an initial movement is sensed, if another mov ement is not sensed within the timer setting then the delayed off time setting is automatically reduced.
False-Off - The sensor incorrectly turns the lights off.	The sensor does not detect movement because an occupant sits virtually motionless at a desk and the lights turn off.	If motion is sensed within a short period after the lights go off, then the current delayed off-time setting is increased.

Leviton Mfg. Co., Inc. Lighting & Energy Solutions



DIP SWITCH SETTINGS				
SWITC	Н	SWITCH FUNCTIONS	SWITCH SETTINGS	
	BANK A	OFF	ON	
A1	N/A			
A2	N/A			
А3	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled	
A4	Walk-Thru Disable	Walk-Thru Enabled	Walk-Thru Disabled	
	BANK B			
B1	Override to On	Auto Mode	Lights forced On	
B2	Override to Off	Auto Mode	Lights forced Off	
В3	Test Mode	OFF'ON'OFF	Enter/Exit Test Mode	
В4	LED Disable	LEDs Enabled	LEDs Disabled	

^{*}Bold items are factory defaults

SPECIFICATIONS

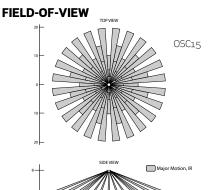
24 VDC, 10mA from OSPxx Power Pack or OPB15 Power Base	
10mA	
24 VDC active high logic control signal with short circuit protection	
o to 100%; red knob (factory setting: 75%)	
20 to 3,000 Lux; blue knob factory set at 100% (*grey wire required)	
30sec-30min; black knob (factory setting: 10min)	
Passive infrared motion technology	
32°F to 104°F (0°C to 40°C)	
o% to 95% non-condensing, for indoor use only	
8-10 feet	
CUL/US Certified, meets ASHRAE Standard 90.1 and CEC Title 24 requirements	
Limited Five-Year Warranty	

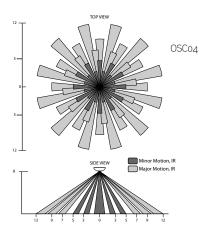
ORDERING INFORMATION

CAT NO.	DESCRIPTION
OSCo4-loW	Passive Infrared Ceiling Sensor, 450 sq. feet of coverage
OSC15-loW	Passive Infrared Ceiling Sensor, 1,500 sq. feet of coverage

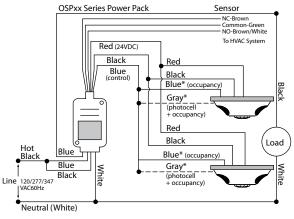
NAFTA compliant and Made in USA models available

DIMENSIONS 4200' 1571'





PHYSICAL WIRING



Leviton Manufacturing Co., Inc. Lighting & Energy Solutions

201 N. Service Rd. Melville, NY 11747-3138 Tech Line: 1-800-824-3005 Fax: 1-800-832-9538 www.leviton.com/les

Leviton Manufacturing of Canada, Ltd.

165 Hymus Boulevard, Pointe Claire, Quebec HgR 1Eg • Telephone: 1-800-469-7890 • FAX: 1-800-563-1853

Leviton S. de R.L. de C.V.

Lago Tana 43, Mexico DF, Mexico CP 11290 • Tel. (+52) 55-5082-1040 • FAX: (+52) 5386-1797 • www.leviton.com.mx

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