

Multi-Technology Ceiling Occupancy Sensor



GENERAL OPERATION

Occupancy sensors have two tasks: 1) Keeping the lights ON while the room is occupied, and 2) Saving energy by keeping the lights OFF while the room is unoccupied.

Passive Infrared (PIR) is an excellent and precise technology for initially turning the lights ON, but lacks sensitivity for minor motion at distances. Ultrasonic (U/S) technology provides maximum sensitivity with continuous reflective high frequency

• Timer setting feature: automatic—30sec-30min. Test waves. This is optimal for keeping the lights ON.

Leviton's multi-technology sensor combines the benefits of both PIR and U/S technologies for unrivaled performance and reliability.

APPLICATIONS

- Cafeterias
- Computer rooms
- Day care centers
- Workspaces
- Offices with cubicles
- Restrooms
- Storage rooms
- Classrooms
- Conference rooms
- Filing rooms
- Open warehouses
- Open areas
- Stairwells
- Executive, open and private offices

time delay. Performance is kept at a maximum and user complaints are eliminated.

- Custom off-white color matched for shaded ceilings
- Fast, simple installation: easy ceiling mount, three wire connection (low voltage) and twist-lock sensor attachment for 360° rotation and flexibility
- Maximum reliability, low cost: digital circuitry uses a minimum of components
- Small motion sensitivity: the ultrasonic technology provides excellent small motion sensitivity
- mode—6sec with auto exit programming.
- Non-volatile memory: learned and adjusted settings saved in protected memory are not lost during power outages
- Walk-through: provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space
- Wide coverage: units from 500 to 2,000 sq. ft. available
- Power base (OPB15) available for line voltage applications
- Ambient light recognition: a light sensor prevents lights from turning on when the room is adequately lit by natural
- Ultrasonic (U/S) components: one or two U/S transducers and one or two narrow bandwidth receivers each 16mm in diameter. Frequency—Crystal controlled to ±.005%.
- Device: rugged, high-impact, injection molded plastic, off -white. Color coded leads 6" (16.24 cm).

FEATURES

 Self-adjusting: internal microprocessor continually analyzes, evaluates and adjusts the sensitivity and

HOW THE OSCXX-M 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.

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PRODUCT DATA

DIP SWITCH SETTINGS				
SWITCH		SWITCH FUNCTIONS	SWITCH SETTINGS	
	BANK A	OFF	ON	
A1	N/A	Multi-Tech	Single Tech	
A2	N/A	PIR	Ultrasonic	
АЗ	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	
B4	LED Disable	LEDs Enabled	LEDs Disabled	

^{*}Bold items are factory defaults

SPECIFICATIONS		
ELECTRICAL		
_	OSC05-M0W, OSC10-M0W: 40kHz	
Frequency	OSC20-M0W: 32Khz	
Power Requirements	24 VDC, from OSPxx Power Pack or OPB15 Power Base	
Power Consumption	OSC05: 25mA, OSC10: 35mA, OSC20: 30mA	
Output	24 VDC active high logic control signal with short circuit protection	
CONTROLS		
Ultrasonic Sensitivity	0-100%; green knob (factory setting: 50%)	
Infrared Sensitivity	0-100%; red knob; (factory setting: 75%)	
Light Sensor	20 to 3,000 Lux; blue knob; factory set at 100% (*grey wire required)	
Time Delay	30sec-30min; black knob (factory setting: 10min)	
INDICATORS		
Green LED	U/S motion technology	
Red LED	Infrared motion technology	
ENVIRONMENTAL		
Operating Temperature Range	32-104°F (0-40°C)	
Relative Humidity	0-95% non-condensing, for indoor use only	
OTHER		
Mounting Height	8-12 feet	
Listings	CUL/US Certified	
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 INFORMAT	ION	
CAT NO.	DESCRIPTION	
OSC05-M0W	Multi-Technology Ceiling Sensor, 500 sq. feet of coverage	
OSC10-M0W	Multi-Technology Ceiling Sensor, 1,000 sq.	

CAT NO.	DESCRIPTION
OSC05-M0W	Multi-Technology Ceiling Sensor, 500 sq. feet of coverage
OSC10-MOW	Multi-Technology Ceiling Sensor, 1,000 sq. feet of coverage
OSC20-M0W	Multi-Technology Ceiling Sensor, 2,000 sq. feet of coverage

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

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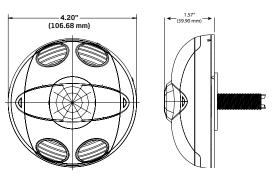
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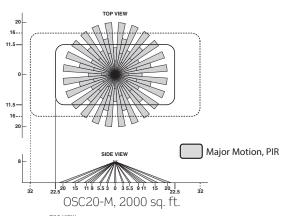
10385 SW Avery St., Tualatin, OR 97062 tel 800-736-6682 fax 503-404-5594 tech line (6:00AM-4:00PM PT Mon-Fri) 800-959-6004

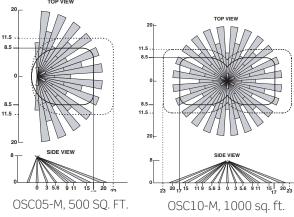
Visit our Website at: www.leviton.com/sensors

DIMENSIONS



FIELD-OF-VIEW





PHYSICAL WIRING

