Occupancy Sensor Multi-Technology Wall/ Corner Sensor

OSW12-MOW

With ultrasonic and infrared sensing, this top-of-the-line sensor provides the highest degree of immunity to false tripping. Auto-Adapting circuitry fine-tunes delay settings for "install and forget" simplicity.

OSW12-MOW

THE MULTI-TECHNOLOGY OSW12-M OCCUPANCY SENSOR

- INFRARED & ULTRASONIC SENSING
- HIGH SENSITIVITY, HIGH RELIABILITY
- TOP-OF-THE-LINE TECHNOLOGY
- SELF-ADJUSTING, SELF-CALIBRATING
- PHOTOCELL CONTROL
- 24VDC, CLASS 2 LOW VOLTAGE WIRING
- "TWIST-AND-LOCK BRACKET" INCLUDED

GENERAL OPERATION

The OSW12-M Occupancy Sensor uses ultrasonic sensing for maximum motion sensitivity and infrared sensing for highest lights-off reliability. The sensor continually analyzes and adjusts to changing conditions.

The OSW12-M Occupancy Sensor uses the latest microprocessor-based technology which permits the detector to continually adjust and optimize its performance. The detector requires a 24 volt OSPxx Series power pack.

By combining ultrasonic and infrared technology, the OSW12-M Occupancy Sensor provides excellent small motion sensitivity (US) and error immunity (IR). The mounting base, provided with the sensor, allows quick and easy mounting in corners, on wall or on ceilings.

FEATURES

Multi-Technology: By using both infrared and ultrasonic signals, the sensor minimizes false reading for high reliability.

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 installing. Wall or ceiling mount.

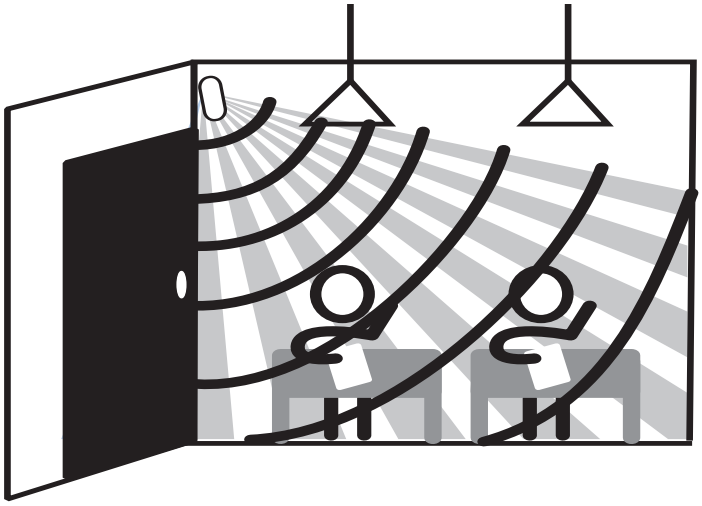
Wide Coverage: Over 1200 sq. ft of coverage.

Timer Settings: Automatic and Manual - 30s to 30 min. Test mode - 6 sec.

Self-Adjusting: Internal microprocessor continually analyzes, evaluates and adjusts settings. Performance is kept at a maximum and user complaints are eliminated.

Non-Volatile Memory: Learned and adjusted settings saved in protected memory are not lost during power outages.

Ambient Light Recognition: A photocell prevents lights from turning on when the room is adequately lit by natural light. Both "occupied" and "low-light-level and occupied" lights-on control wires are supplied.



The versatile OSW12-M Occupancy Sensor can be mounted on the wall to provide full room coverage when low-hanging lights or other obstacles are present. Infrared and ultrasonic signals are used for maximum reliability.

LEVITON SPECIFICATION SUBMITTAL

JOB NAME:	CATALOG NUMBERS:	
JOB NUMBER:		

Leviton Mfg. Co., Inc.
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Visit our Website at: www.leviton.com

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Product Specifications

OSW12-MOW

PRODUCT SPECIFICATIONS

Models				
Part Number	**Transducer Pairs**	**Coverage**	**Operating Frequency**	**Additional Features**
OSW12-M	one	1200 sq. ft.	32kHz	Photocell

SELF ADJUSTING FUNCTIONS

Timer Test Mode (6 sec.): Auto resets in 15 min to normal.
Operating Timer: Self-Adjusting
Air Current Compensation: Automatic, self-adjusting.
False-Off Correction: Timer increases temporarily over initial value.
False-On Corrections: Decrease delayed off-time.

CONTROLS

Table 4: DIP switch settings

Switch		Switch Functions	Switch Settings
	Bank A	**OFF**	**ON**
A1	Single/Multi-Tech Mode	Multi-Tech	Single Tech
A2	PIR/Ultrasonic Mode	PIR	Ultrasonic
A3	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
B3	Test Mode	OFF-ON-OFF	Enter/Exit Test Mode
B4	LED Disable	LEDS Enabled	LEDS Disabled

Ultrasonic Sensitivity: 0 to 100%: green knob (factory setting: factory setting 50%).
Infrared Sensitivity: 0 to 100%: red knob (factory setting: 75%).
Photocell: Blue knob 20 to 3,000 Lux. Factory set at 3,000 Lux - (disable photocell).

INDICATORS

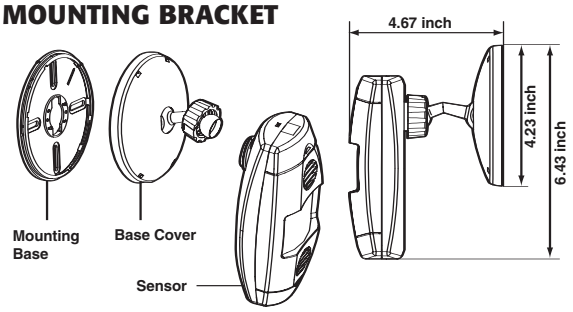
Red LED Lamp: Infrared motion.
Green LED Lamp: Ultrasonic motion.

SPECIFICATIONS

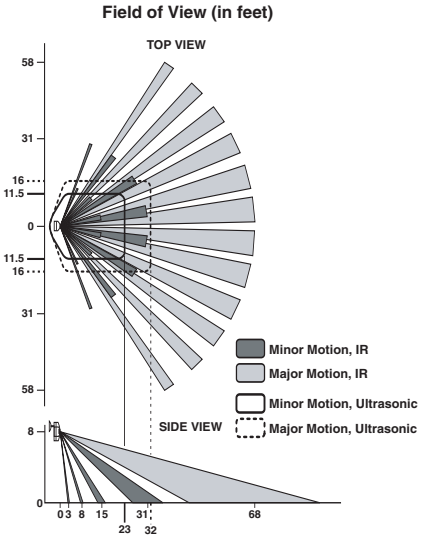
Construction: High-impact housing, injection molded plastic. Color coded wire leads are 6" long (16.24 cm).
Size & Weight: 5.5"H x 2.75"W x 1.65"D, without bracket
Infrared Detector: High sensitivity 9.8 micron dual element PIR, 16mm ultrasonic detectors.
Lens: 110˚ aperture, lens opening 2.2" x 1.47", 36 elements (72 zones) small motion range 31 ft, large motion 68 ft
Power Requirements: 24 VDC, 30 mA from OSPxx power pack or OPB15 Power Base Adaptor.
Output: 24 VDC active high logic control signal with short circuit protection.
Photocell: 20-3,000 Lux adjustable.
Operating Environment: 32˚F to 104˚F (0˚C to 40˚C); 0% to 95% relative humidity, non-condensing. For indoor use only.
Warranty: 5 years.

**When the photocell function is not being used, connect the Blue Occupancy Sensor lead to the Blue Power Pack lead. When using the Photocell function, connect the Gray Occupancy Sensor lead to the Blue Power pack lead–Do not use the Blue Occupancy Sensor lead for the photocell function.*

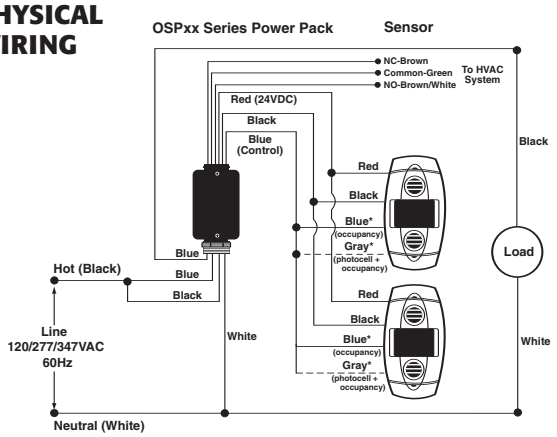
MOUNTING BRACKET



RANGE



PHYSICAL WIRING



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