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.

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.
PRODUCT SPECIFICATIONS

Models

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Transducer Pairs</th>
<th>Coverage</th>
<th>Operating Frequency</th>
<th>Additional Features</th>
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</thead>
<tbody>
<tr>
<td>OSW12-M</td>
<td>one</td>
<td>1200 sq. ft.</td>
<td>32kHz</td>
<td>Photocell</td>
</tr>
</tbody>
</table>

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 on-time.

CONTROLS

<table>
<thead>
<tr>
<th>Switch</th>
<th>Switch Functions</th>
<th>Switch Settings</th>
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</thead>
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<tr>
<td>A1</td>
<td>Single/Multi-Tech Mode</td>
<td>Multi-Tech Single Tech</td>
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<tr>
<td>A2</td>
<td>PIR/Ultrasonic Mode</td>
<td>PIR Ultrasonic</td>
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<tr>
<td>A3</td>
<td>Manual Mode</td>
<td>Auto Adapting Enabled Auto Adapting Disabled</td>
</tr>
<tr>
<td>A4</td>
<td>Walk-Thru Disable</td>
<td>Walk-Thru Enabled Walk-Thru Disabled</td>
</tr>
<tr>
<td>Bank B</td>
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<td></td>
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<tr>
<td>B1</td>
<td>Override to On</td>
<td>Auto Mode Lights forced On</td>
</tr>
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<td>B2</td>
<td>Override to Off</td>
<td>Auto Mode Lights forced Off</td>
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<tr>
<td>B3</td>
<td>Test Mode</td>
<td>OFF ON OFF Enter/Exit Test Mode</td>
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<tr>
<td>B4</td>
<td>LED Disable</td>
<td>LEDS Enabled LEDS Disabled</td>
</tr>
</tbody>
</table>

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 Adapter.

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.

LEVITON SPECIFICATION SUBMITTAL

JOB NAME: 

JOB NUMBER: 

CATALOG NUMBERS: 

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