



SENSORWORX®

CEILING MOUNT OCCUPANCY SENSOR

LOW VOLTAGE

OVERVIEW

The **SENSORWORX®** family of ceiling mount occupancy sensors provides a range of control solutions for spaces with finished ceilings (e.g., tiles, sheetrock, and plaster). Preferred by contractors for their simple, yet flexible, mounting methods, **SENSORWORX** sensors reduce installation time and fuss. **SENSORWORX** products utilize the latest passive infrared technology and digital signal processing techniques to provide unmatched detection performance. Additionally **SENSORWORX** units are available with an integrated microphone to provide overlapping passive acoustic occupancy detection for rooms with obstructions or where occupant motion will be limited.

BASIC OPERATION

Sensors detect movement in the infrared energy that radiates from occupants as they move within the devices field-of-view. Once occupancy is identified, the sensor signals a connected power/relay pack to switch on the connected lighting. If equipped with passive dual technology (PIR/Acoustic), the unit's microphone is then also enabled to further enhance detection while the lights are on. An internal timer is set to keep lights on during brief periods of inactivity, and is reset every time occupancy is signaled by either the passive infrared or acoustic detection technologies.

APPLICATIONS

A single sensor can be used in small spaces like a private office, however, multiple low voltage sensors can be easily wired together to provide coverage for larger spaces like an open office.

- Classrooms
- Open Areas
- Conference Rooms
- Hallways
- Small Offices
- Copy Rooms
- Private Restrooms
- Break Rooms

FEATURES

- **Digital Passive Infrared (PIR) Detection**
- **Passive Acoustic Detection (Optional)**
- **360° Coverage Pattern**
- **Compact Size and Matte Finish**
- **Four Contractor Friendly Mounting Methods**
- **Mounting Nipple Attachment with Integrated Hole Saw**
- **Convenient Test Mode and Adjustable Time Delays**

SPECIFICATIONS

ELECTRICAL

OPERATING VOLTAGE

12-24 VAC/VDC

CURRENT DRAW

4mA

OUTPUT

Logic High VDC (Occupied Mode)

RECOMMENDED POWER PACKS

SENSORWORX (e.g., SWX-900)

PHYSICAL

SIZE

4.00" Diameter x 1.25" H
(10.16 x 3.17 cm)

WEIGHT

4.75 oz.

COLOR

White

ENVIRONMENTAL

OPERATING TEMP

-10°F to 122°F (14°C to 50°C)

RELATIVE HUMIDITY

0-95% Non-Condensing,
Indoor Use Only

ROHS COMPLIANT

OTHER

LISTINGS

Meets ASHRAE Standard 90.1 &
CEC Title 24 Requirements



ORDERING INFO

SAMPLE MODEL # SWX-222-1

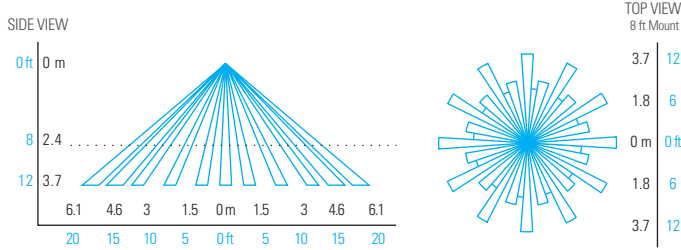
| | PRODUCT | | DETECTION | | COVERAGE | | VOLTAGE | |
|------------|----------------------|----------|--|----------|-------------------|----------|-------------|----------|
| SWX | Ceiling Mount Sensor | 2 | Passive Infrared (PIR) | 0 | Small Motion 360° | 1 | Low Voltage | 1 |
| | | | Passive Dual Technology (PIR/Acoustic) | 2 | Large Motion 360° | 2 | | |

COVERAGE PATTERNS

- 8 to 15 ft (2.44 to 4.57 m) mounting height recommended
- Detection range improves when walking across beams as compared to into beams

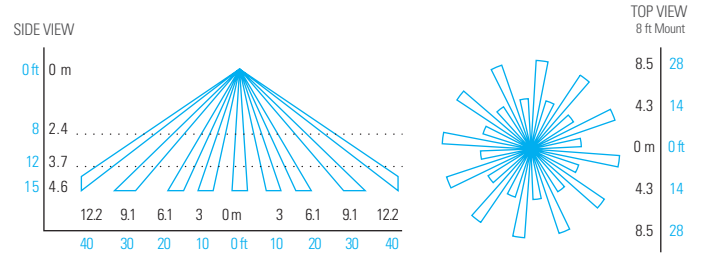
SMALL MOTION 360°

- Best choice for detection of small motions from sitting occupants (e.g., hand motion)
- ~500 ft² of coverage

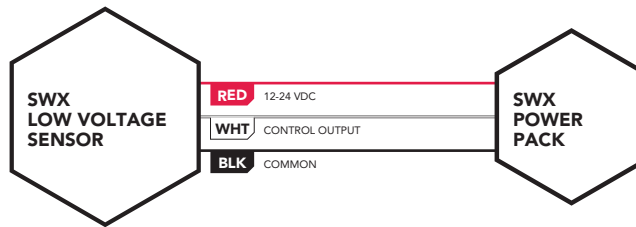


LARGE MOTION 360°

- Best choice for detection of larger motion (e.g., walking)
- ~2000 ft² of coverage



WIRING



INSTALLATION OPTIONS

