Date





FIXTURE MOUNT OCCUPANCY SENSOR

LINE VOLTAGE

OVFRVIFW

The **SENSOR**WORX® fixture mount occupancy sensor series is an excellent solution for high bay and industrial lighting control. With its universal lens that provides excellent range and density, this sensor removes the need to classify an application as low bay, high bay, or aisleway. Additionally, integrated tabs on its chase nipple reduces installation time and fuss by firmly attaching to a fixture via a standard knockout. **SENSOR**WORX products utilize the latest passive infrared technology and digital signal processing techniques to provide unmatched detection performance.

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's internal relay switches power on to the connected lighting. An internal timer is set to keep lights on during brief periods of inactivity, and is reset every time occupancy is signaled. Optional daylight detection is also available that dims or turns off controlled lighting according to the ambient lights levels present in the space.

APPLICATIONS

Line voltage sensors are self-contained units that directly power from and switch 120/277 VAC. In a fixture mount application, they typically control a single fixture.

- Warehouse Storage Area
- Distribution Centers
- Garage
- Manufacturing Areas





FEATURES

- Universal Lens Works for High Bay, Low Bay, & AisleWay Applications
- Greater Detection Range & Density than Leading Highbay 360° & Aisleway sensors
- Digital Passive Infrared (PIR)
 Detection
- Optional Dimming Output Enables Configurable High/Low/Off Operational Modes
- Snap-In Chase Nipple Makes Installation Quick
- Integrated Bracket Drops Sensor Below Bottom of Fixture
- Electronically Timed Switching Designed for LED Fixture Control
- Convenient Test Mode and Adjustable Time Delays

SPECIFICATIONS

ELECTRICAL

OPERATING VOLTAGE

MVOLT (120-277 VAC)

LOAD RATINGS

800W @ 120 VAC 1000W @ 208 VAC (2-Phase)

1200W @ 277 VAC

LOAD TYPES

Tungsten Ballast LED

ENVIRONMENTAL

OPERATING TEMP

-10° to 122°F (14° to 50°C)

RELATIVE HUMIDITY

0-95% Non-Condensing, Indoor Use Only

PHYSICAL

SIZE

4.00" Diameter x 3.00" H (10.16 x 7.62 cm)

WEIGHT

5.00 oz

COLOR

White

OTHER

LISTINGS

Meets ASHRAE Standard 90.1 & CEC Title 24 Requirements











ORDERING INFO

SAMPLE MODEL # SWX-501

	PRODUCT	DETECTION		COVERAGE	0-10V DIMMING OPTIONS		ENVIRONMENT		ADDITIONAL OPTIONS	
SWX	Fixture Mount Sensor -5	PIR PIR + Photocell	0	Highbay / Lowbay / Aisleway 1	None High/Low/Off Operation Night Light Operation	Blank -HL -NL*	Standard Environment High Humidity Environment	Blank -HE	Individual Pack 50 Pack	Blank -J50

PHOTOCELL OPERATION

Sensors with an integrated photocell (models SWX-511, SWX-512) will turn lights on/off depending on the amount of ambient light detected. This operation makes them ideal for lighting near skylights, windows, or large bay doors.

NIGHT LIGHT OPERATION

To enhance nighttime safety in facilities equipped with 0-10V dimmable fixtures, a NightLight operational mode (NL option) is available on sensors equipped with a photocell (SWX-511 and SWX-512). In this mode, fixtures will be dimmed and then turned completely off during periods with sufficient daylight. However, during periods with insufficient daylight (i.e. at night) lights are held at a dimmed level during unoccupied periods.

HIGH/I OW/OFF OPERATION

0-10V dimmable fixtures can be controlled with a high/low/off sequence of operation by adding the High/Low option (HL). With this mode, the sensors will drop the lighting level to a low setting after the occupancy time delay expires. Then, after a second time delay, the sensor will shut the fixture off completely. Alternatively, leaving the sensor's relay disconnected will cause the fixture to stay at the full dim setting (but never turn completely off) for the duration of the unoccupied period.

OPERATION SETTING

OPERATION SETTING (* = DEFAULT)

- Primary Occupancy Time Delay: Test Mode, 30 sec, 5, 10*, 15, 20, 30 min
- Secondary (Dim to Off) Time Delay: 0, 30 sec, 2.5*, 5, 10 min
- Ambient Light Threshold: Auto-Setpoint, 7 Preset Levels, Disabled
- High Trim: 10V*, 9V, 8V, 7V, 6V, 5V
- Low Trim: 0V, 1V, 2V, 3V*, 4V, 5V

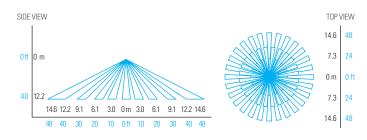
- LED Intensity: Low, High*
- Operational Mode (Occupancy):
 - SWX-50y, SWX-51y: On/Off*
 - SWX-50y-HL: High/Low/Off*, High/Low
 - SWX-51y-NL: High/Low/Off, High/Low*

COVERAGE PATTERNS

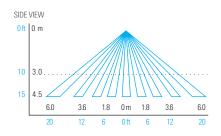
UNIVERSAL LENS

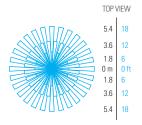
- Detects walking size motion or larger (e.g., forklifts)
- Single lens provides detection at mounting heights from 8 ft to 40 ft +
- Detection range improves when walking askew to sensor compared to directly at it
- Typical coverage radius ~1.2 x mounting height

HIGH BAY MOUNTING

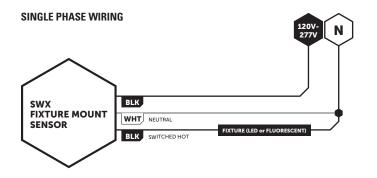


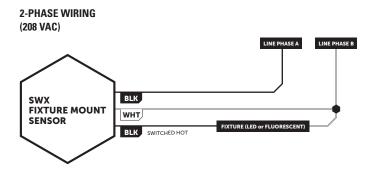
LOW BAY MOUNTING



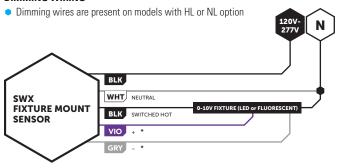


WIRING





DIMMING WIRING



* VIO/GRY DIMMING WIRES (0-10V) SHOULD BE TREATED AS CLASS 1

INSTALLATION

