

PerfectSense ntelligent Building Occupancy Sensors

FFATURES

Date

Universal Lens Works for High Bay, Low Bay, & AisleWay Applications

Project:

- 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**

FIXTURE MOUNT OCCUPANCY SENSOR

LINE VOLTAGE

OVERVIEW

The PerfectSense® 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. PerfectSense 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.

APPI ICATIONS

ORDERING INFO

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



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 I FD

FNVIRONMENTAL

OPERATING TEMP -10° to 122°F (14° to 50°C)

RELATIVE HUMIDITY 0-95% Non-Condensing, Indoor Use Only





PHYSICAL SI7F

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





SAMPLE MODEL # PS-SWX-501

BAA

	PRODUCT		DETECTION		COVERAGE		0-10V DIMMING OPTIONS		ENVIRONMENT		ADDITIONAL OPTIONS	
PS-SWX	Fixture Mount Sensor	-5	PIR PIR + Photocell	0 1	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

*NOT AVAILABLE WITH PIR + PHOTOCELL VERSION **REQUIRES PIR + PHOTOCELL VERSION

PHOTOCELL OPERATION

Sensors with an integrated photocell (e.g. model PS-SWX-511) 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. 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/LOW/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

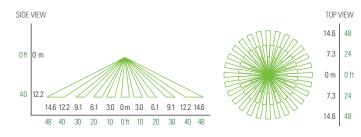
- LED Intensity: Low, High*
- Operational Mode (Occupancy):
 - PS-SWX-501, PS-SWX-511: On/Off*
 - PS-SWX-501-HL: High/Low/Off*, High/Low
 - PS-SWX-511-NL: High/Low/Off, High/Low*

COVERAGE PATTERNS

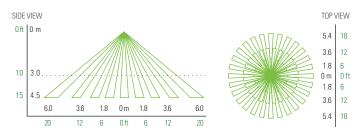
UNIVERSAL LENS

- 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

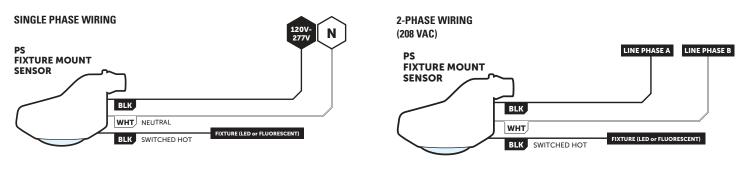
HIGH BAY MOUNTING



LOW BAY MOUNTING

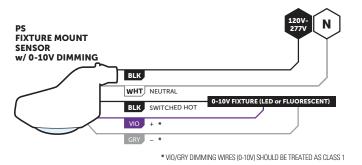


WIRING

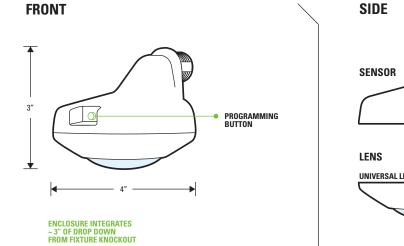


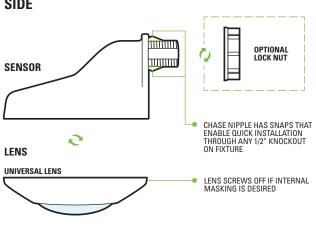
DIMMING WIRING

• Dimming wires are present on models with HL or NL option



INSTALLATION





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Five-Year Limited Warranty DATA5002 | REV 001–200707 Powered by **SENSOR**WORX