FIXTURE MOUNT OCCUPANCY SENSOR

LINE VOLTAGE

OVERVIEW

The Intelligent Lighting Controls 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. ILC products utilize the latest passive infrared technology and digital signal processing techniques to provide unmatched detection performance.

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

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SAMPLE MODEL # ILC-SWX-501

*RREQUIRES PIR + PHOTOCELL VERSION*
PHOTOCELL OPERATION

Sensors with an integrated photocell (models ILC-SWX-511, ILC-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 (ILC-SWX-511 and ILC-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.

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):
  - ILC-SWX-50y, ILC-SWX-51y: On/Off*
  - ILC-SWX-50y-HL: High/Low/Off*, High/Low
  - ILC-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
WIRING

SINGLE PHASE WIRING

2-PHASE WIRING (208 VAC)

DIMMING WIRING

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

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

INSTALLATION

FRONT

SIDE

ENCLOSURE INTEGRATES ~3” OF DROP DOWN FROM FIXTURE KNOCKOUT

OPTIONAL LOCK NUT

CHASE NIPPLE HAS SNAPS THAT ENABLE QUICK INSTALLATION THROUGH ANY 1/2” KNOCKOUT ON FIXTURE

LENS SCREWS OFF IF INTERNAL MASKING IS DESIRED

PROGRAMMING BUTTON

LENS

UNIVERSAL LENS