sensorswitch

HMRB 10

HIGH BAY END-OF-AISLE SENSOR FIXTURE MOUNT BOX • LINE VOLTAGE • PASSIVE INFARED (PIR)

SPECIFICATIONS

FEATURES

100% Digital PIR Detection, Excellent RF Immunity Up to 45 ft Mounting Coverage up to 110 Linear ft Self-Contained Relay - No Power Pack needed Push-Button Programmable User Adjustable Time Delays No Field Calibration or Sensitivity Adjustments Required Convenient Test Mode 100 Hr Lamp Burn-in Timer Green LED Indicator

LAMPMAXIMIZER[®] TECHNOLOGY

- Protects Lamp Life while Maximizing Energy Savings
- Minimum On Timer (15 min default)
- Occ. Time Delay (10 min defatult)
- · LampMaximizer+ Mode -Optimizes Lamp Life & Energy Savings (disabled by default)
- Switch Counter (in 1000's) Total Lamp On Time (in khrs)

PHYSICAL SPECS

SIZE 3.63" H x 3.63" W x 1.50" D (9.22 cm x 9.22 cm x 3.81 cm) WÈIGHT 6 oz MOUNTING 1/2" knockout COLOR White

ELECTRICAL SPECS

MAXIMUMIO 800 W @ 120 VAC 1200 W @ 277 VAC 1500 W @ 347 VAC MINIMUM LOAD None MOTOR LOAD 1/4 HP FREQUENCY 50/60 Hz DIMMING LOAD Sinks < 20mA; ~40 Ballasts @ .5mA each

ENVIRONMENTAL SPECS

14° to 160° F (-10° to 71° C) -14° to 160° F (-26° to 71° C) **RELATIVE HUMIDI** 20 to 90% non-condensing SILICONE FREE ROHS COMPLIANT

OVERVIEW

High Bay Aisle Way lighting control is easily accomplished by the HMRB 10 Series Passive Infrared (PIR) occupancy sensor. This line voltage sensor easily installs to a standard junction box through a 1/2 inch knockout. Designed to be deployed in pairs and mounted 30 to 45 ft (9.14 to 13.72 m) high at the both ends of an aisle, each HMRB 10 views up to 110 linear ft (33.53 m) of aisleway space. The HMRB 10 powers itself from line voltage and switches loads directly without the need for a power pack. While ideal for on/off control of T5/T8 fluorescent lighting, HID bi-level fixtures can also be controlled when the Start-to-High (SH) option is added. For simultaneous control of entire aisles, a low voltage solution is recommended. For example, use two HMB 10 Series sensors mounted on the ends with added CMB 50 or CMB 6 Series sensors covering the inner aisle as needed.

SENSOR OPERATION

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a self-contained relay switches the lighting on. The sensor is line powered and can switch line voltage (see specifications). An internal timer, factory set at 15 minutes, keeps the lights on during brief periods of inactivity. This timer is push-button programmable from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-ofthe-art sensor requires no field calibration or sensitivity adjustments.

LAMPMAXIMIZER®

This sensor also contains patent pending LampMaximizer technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum on timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp warranties specify. A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments can be done manually, through the unit's push-button, or automatically every two weeks through an advanced mode, called LampMaximizer+, that determines the optimum time delay in order to maximize both lamp life and energy savings. Additionally, this sensor maintains statistics on total lamp on time and number of cycles.

OPTIONS

OCCUPANCY CONTROLLED DIMMING (D)

- Provides dimming outputs to control 0-10 VDC dimmable ballasts
- Provides a second occupancy timeout period that enables the lights to go to a dim setting before turning off
- Adjustable max/min dim setting

START-TO-HIGH TIMER (SH)

Upon power up sensor holds lights ON and High for 20 min

347 VAC (347)

 Allows sensor to be powered from and switch 347 VAC

LOW TEMP/HIGH HUMIDITY (LT)

- · Sensor is corrosion resistant to moisture
- Operates down to -40° F/C



ORDERING INFO HMRB 10 [DIMMING] [START-TO-HIGH] [VOLTAGE] [TEMP/HUMIDITY]

DIMMING

Blank = Standard

START-TO-HIGH

Blank = No STH **D** = Occupancy Controlled Dimming SH = w/STH

Blank = 120-277 VAC 347 = 347 VAC

VOLTAGE

Blank = Standard LT = Low Temp

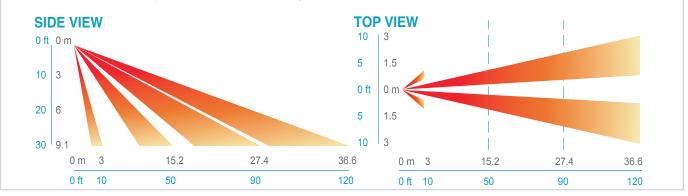
TEMP/HUMIDITY

COVERAGE PATTERN

HM 10 HIGH BAY END-OF-AISLE LENS

- Detects motion from the end of an aisle up to 110 ft (33.53 m) long
- Designed to mount 30 ft (9.14 m) high and 10 ft (3.05 m) back from end-of-aisle
- · Sensors should always be applied in pairs facing each other from either end of an aisle

*BLACK wires can be reversed



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

BLACK* - Line Input BLACK* - Load Output WHITE - Neutral

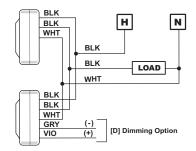
347 VAC OPTION (347)

Black wires are replaced w/ Red wires

INITIAL POWER UP

The sensor's relay is shipped in a latched closed position so the lights will come on upon initial power-up. If the lights do not mmediately turn on (initial installation only) the latching relay opened during shipment and will close within 30 secs.

Note: If the sensor loses power, the internal relay will latch to on.



DIMMING OPTION (D)

VIOLET - Connect to Violet control wire from 0-10 VDC dimmable ballast GRAY - Connect to Gray common wire from ballast

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WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch. Inc. be liable for any incidental or consequential property damages or losses.

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