sensorswitch

HIGH BAY AISLEWAY SENSOR
RECESSED MOUNT • LINE VOLTAGE • PASSIVE INFRARED

KEY SPECS
Lens High Bay Aisleway
Enclosure Recessed Mount
Power Type Line Voltage
Detection Passive Infrared

TYPICAL APPLICATIONS
High Bay Aisleways
Individual Fixture Control
HID Bi-Level (w/ -SH option)
T-5/T-8 Fluorescent

FEATURES
Up to 45 ft. Mounting
30 sec. to 20 min Time Delay
Self-contained Relay,
no Power Pack required
No Minimum Load
Push-Button Programmable
100 hr. Lamp Burn-in Timer
Green LED Indicator

PHYSICAL SPECS
Size 4.40" (11.18 cm) square
Weight 6 oz.
Mounting Recessed into a 4" x 4" square junction box
Color White

ELECTRICAL SPECS
Load Rating (1 Phase Only)
800 W @ 120 VAC
1200 W @ 277 VAC
1500 W @ 347 VAC
Motor Load 1/4 HP
Frequency 50/60 Hz
Timers are 1.2x for 50 Hz

ENVIRONMENTAL SPECS
Operating Temp
14º to 160º F (-10º to 71º C)
Storage Temp
-14º to 160º F (-26º to 71º C)
Relative Humidity
20 to 90% non-condensing
-LT Option
Circuit board is coated to be corrosion resistant to moisture and operate down to -40ºF/ºC

OTHER
UL and CUL Listed
Title 24 Compliant
5 Year Warranty
Made in the U.S.A.

RMR-50 SERIES

The *RMR-50 Series* occupancy sensor provides Bi-Directional High Bay Aisleway sensing extending 70-110 feet when mounted at heights of 30-45 feet. This sensor is line powered and is specifically designed to recess mount into linear High Bay fluorescent fixtures using standard 4" x 4" junction box spacing. The sensor's view pattern covers the area lit by three typically spaced High Bay fixtures. Therefore, when mounted at a fixture, the coverage area extends out to the area that is lighted by the neighboring fixtures. This effect is useful with some Program-Start ballasts that have a delay such that when traveling in a fork-lift truck, lighting needs to be initiated "On" ahead of the truck. For total aisleway sensing consider the HMR-10 at each end, and *RMR-50*'s in the center section. The *RMR-50* is intended to control individual T-5/T-8 fixtures. For HID fixture control the *RMR-50-SH* version should be used.

SENSOR OPERATIONS
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 a large range of line voltages. An internal timer, factory set at 10 minutes, keeps the lights "On" during brief periods of no activity. This timer is push-button programmable from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art design requires no manual sensitivity adjustments.

START-TO-HIGH OPTION FOR HID BI-LEVEL CONTROL (-SH)
HID Bi-Level fixtures must be controlled by line voltage and provide their own interposing relay for switching the capacitor in the ballast from "High" to "Low". For these applications the Start-to-High (-SH) option must be used. This option provides a timer (factory set at 20 minutes) that acts as a warm-up period for the HID lamps. The sensor also offers a 100 hour lamp burn-in timer. This feature allows HID lamps to reach full color and light output. Once engaged, the sensor goes to an "On" state for the 100 hours. If power is interrupted, the sensor will continue with the 100 hour countdown when power is restored. Once expired, this feature is disabled until engaged again. During the Start-to-High period or the 100 hour burn-in period, the LED flashes continuously indicating that the sensor is in an override "On" state. If a lamp is replaced, it is suggested to reengage this feature.

ORDERING BLOCK

RMR-50-[START-TO-HIGH]-[VOLTAGE]-[TEMP/HUMIDITY]

OPTIONS

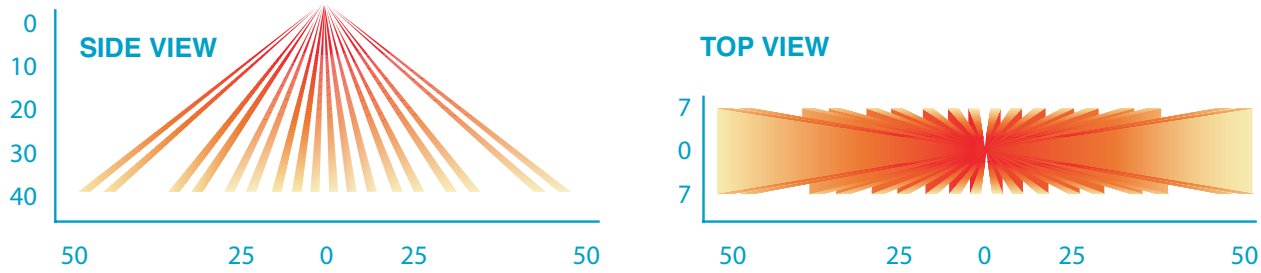
START-TO-HIGH	VOLTAGE	TEMP/HUMIDITY
Blank = No Start-to-High	Blank = 120-277 VAC	Blank = 14º to 160º F
-SH = Start-to-High	-3 = 347 VAC	-LT = -40º to 160º F

revised 01/29/2007

COVERAGE PATTERN

50 HIGH BAY AISLEWAY LENS

- Provides 50° bi-directional and 10° wide coverage pattern
- 1.2 x mounting height equals approximate detection range in either direction.
- Typical 40 ft. mounting detects 50 ft. in either direction



MASKING KIT

- A masking kit is provided with the sensor in order to mask off a portion of the view pattern for end-of-aisle applications.

90° LENS ROTATION

- The sensors lens turret rotates 90° in order to easily adjust the direction of the view pattern

Note: Heat producing sources controlled by the sensor must not be in the view pattern of the sensor. If sensor cycles or appears to continually stay "On", move sensor or mask lens segments that view the source.

*diagrams labeled in feet

WIRING (DO NOT WIRE HOT)

STANDARD WIRING

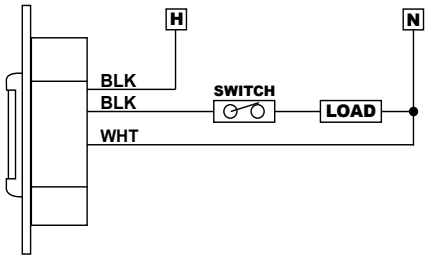
BLACK* - Line Input
BLACK* - Load Output
WHITE - Neutral

347 VAC OPTION

Black wires are replaced w/ Red wires

INITIAL POWER UP (3 MINUTE WARM-UP)

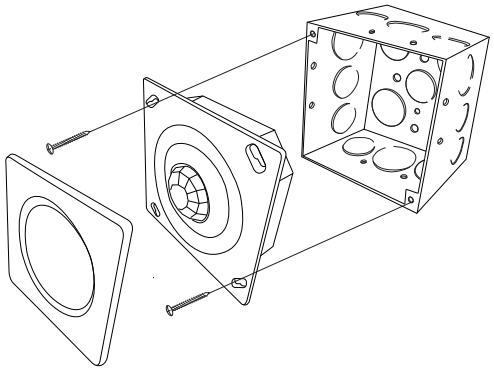
The relay in the sensor is shipped in a latched closed position so that when power is initially applied the lights will come on. The sensor will then begin to "time out" after a 1-3 minute warm-up period. If the lights do not immediately turn on (initial installation only) the latching relay opened during shipment and will close after warm-up period is over.



* Black wires can be reversed

INSTALLATION

- The Recessed Mount enclosure is designed to fit inside a 4" square junction box (minimum box depth 2.125").
- Passive Infrared sensors detect motions crossing the beams much stronger than when entering the beams. The outer beams used for initial detection should be aligned for maximum coverage.



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