

KEY SPECS

Lens High Bay Aisleway Lens
Enclosure Recessed Mount
Power Type Line Voltage
Detection Passive Infrared (PIR)

TYPICAL APPLICATIONS

High Bay Aisleways
Individual Fixture Control
T-5 or T-8 Fluorescent

FEATURES

Up to 45 ft. Mounting
30 sec. to 20 min Time Delay
Self-contained Relays,
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 5 Amp Ballast
Voltage 208/480 VAC or 120/277 VAC
Frequency 50/60 Hz
Timers are 1.2x for 50 Hz

ENVIRONMENTAL SPECS

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

OTHER

UL and CUL 3D62 Listed
Title 24 Compliant
5 Year Warranty
Made in the U.S.A.

RMR-50-480 SERIES



High Bay Lighting Control made simple with the *RMR-50-480 Series* occupancy sensor. This unique sensor is line powered and enables switching of 208/480 VAC lighting loads. Designed to recess mount into linear High Bay fluorescent fixtures using standard 4" x 4" junction box spacing, this sensor's view pattern covers the area lit by three typically spaced T-5 or T-8 fixtures used in a warehouse aisleway. Therefore, when mounted at a fixture, the coverage area extends out to the area that is lighted by the neighboring fixtures. This creates an effect where the lights go on ahead of the occupant.

Each sensor provides 5 wires for installation. Two pairs of hot and load wires dual switch the 208 or 480 VAC hot feeds, thus meeting the NEC 410.54 part B requirements for simultaneously disconnecting all ungrounded conductors. These sensors can also work with a single Hot and Neutral system used in 120 and 277 VAC systems. Additionally, these sensors may be used to switch "multi-volt" ballasts. High humidity or cold damp environments are handled by the optional "-LT" version.

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, dual self-contained relays switch the lighting "On". The sensor is line powered and can switch one 208/480 VAC load or simultaneously switch two 120/277 VAC loads. An internal timer, factory set at 10 minutes, keeps the lights "On" during brief periods of no activity. This timer is selectable at 2.5 minute increments 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.

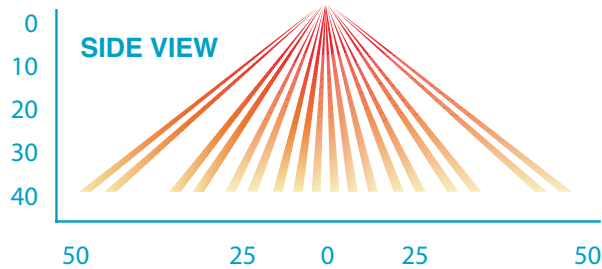
ORDERING BLOCK

RMR-50-480-[TEMP/HUMIDITY]	
OPTIONS	TEMP/HUMIDITY
	Blank = 14° to 160° F -LT = 40° to 160° F

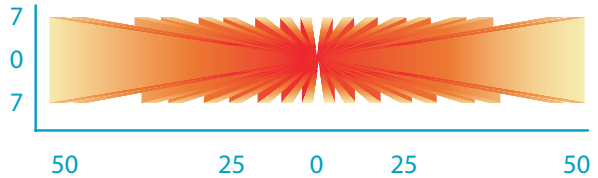
COVERAGE PATTERN

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



TOP VIEW



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 sensor's lens turret rotates 90° in order to easily adjust the direction of the view pattern

* diagrams labeled in feet

WIRING (DO NOT WIRE HOT)

STANDARD WIRING

- BLACK* - Line Input 1
- BLACK* - Load Output 1
- BLUE** - Line Input 2
- BLUE** - Load Output 2
- GREEN - Ground

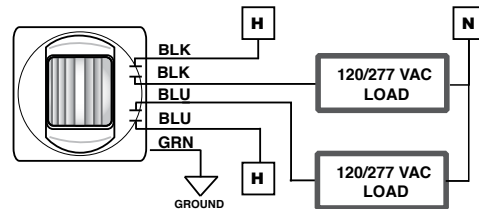
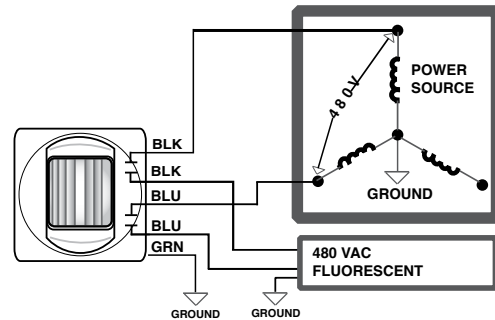
INITIAL POWER UP (3 MINUTE WARM-UP)

The relays in the sensor are 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 relays opened during shipment and will close after warm-up period is over.

120/277 VAC APPLICATIONS

Sensor can also be used to switch two 120/277 loads simultaneously (or just one load by capping blue wires).

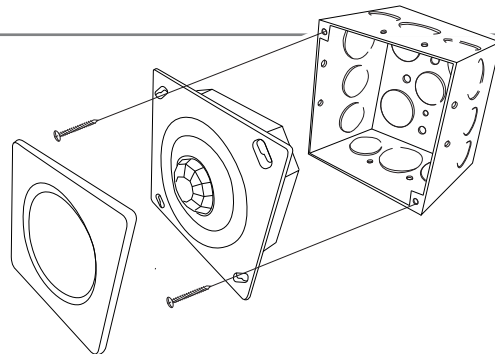
Note: If the sensor loses power, the internal relays will latch to "On". Once the power is restored, the sensor will immediately turn "On", then time out based on the delay setting. Ground must be connected or the lights will not shut "Off" and the green LED activity indicators will not flash.



* Black wires can be reversed
** Blue 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.
- 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



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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.