

KEY SPECS

Lens High Bay 360°
Enclosure Recessed Mount
Power Type Line Voltage
Detection Passive Infrared (PIR)

TYPICAL APPLICATIONS

High Mounting (15-45 ft.)
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-6-480 SERIES



High Bay Lighting Control made simple with the *RMR-6-480 Series* occupancy sensors. These unique sensors are line powered and enable 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 360° coverage pattern overlaps that of most T-5, or T-8 fixtures used in warehouse applications. 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.

DAYLIGHTING CONTROL OPTION (-P)

For spaces with abundant natural light from windows or skylights, this series offers an *On/Off Switching Photocell (-P)* option. This option is most effective when used in areas where daylight is coming in through High Bay garage doors or windows below the level of the sensor. As the daylight levels change in the room, the sensor insures that an adequate light level is maintained according to a programmable set-point value. The -P option provides two modes of operation; one simply inhibits the lights from turning on, while the other has full On/Off control of the lights. For skylight applications consider using the Fixture Mounted version of this sensor (CMRB-6-480-P) as its photocell looks out the rear of the sensor towards the skylight.

ORDERING BLOCK

RMR-6-480-[DAYLIGHTING]-[TEMP/HUMIDITY]		
OPTIONS	DAYLIGHTING	TEMP/HUMIDITY
	Blank = None -P = On/Off Photocell	Blank = 14° to 160° F -LT = 40° to 160° F
		T119-001-P

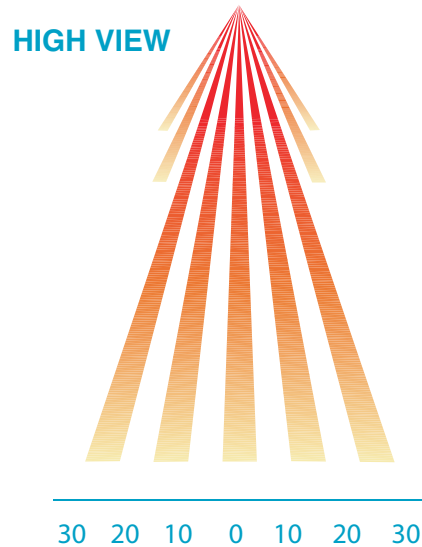
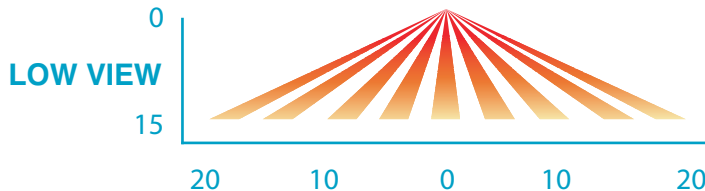
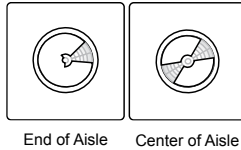
COVERAGE PATTERN

6 HIGH BAY 360° VIEW LENS

- Best choice for 15 to 45 ft. mounting heights
- 15 to 20 ft. radial coverage overlaps area lit by a typical high bay fixture
- Large Motion (e.g. walking) detection up to a 35 ft. mounting height
- Extra Large Motion (e.g. forklifts) detection up to a 45 ft. mounting height

MASKING KIT

- A masking kit is provided in order to mask off a portion of the view pattern for end-of-aisle applications; or to trim the sensor's side viewing to create a rectangular pattern for center-of-aisle viewing only.



* 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

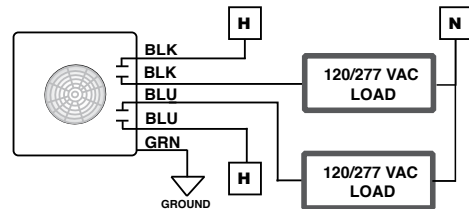
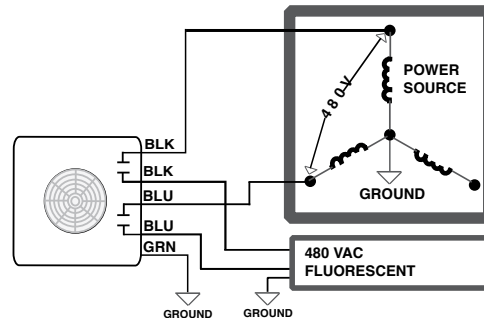
INITIAL POWER UP (3 MINUTE WARM-UP)

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).

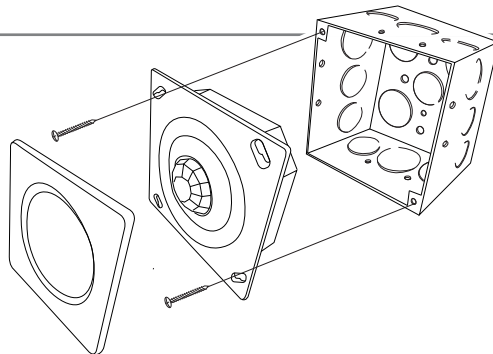
Note: If the sensor loses power, the internal relays will latch to "On". Once the power is restored, the sensor will immediately turn "On", then time out based on the delay setting. Ground must be connected or the lights will not shut "Off" and the green LED activity indicators will not flash.



* 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.