

### 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  
HID Bi-Level (w/ -SH option)

### 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  
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 Listed  
Title 24 Compliant  
5 Year Warranty  
Made in the U.S.A.

## RMR-6 SERIES

Individual control of High Bay fixtures is easily handled by the *RMR-6 Series* occupancy sensor. 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 HID, T-5, or T-8 fixtures used in warehouse applications. For multiple fixture control, multiple low voltage RM-6, RM-50, and/or HM-10 Series High Bay sensors with Power Packs are recommended. For freezer applications, use the *RMR-6-LT* for the cold temperature and corrosion resistant characteristics.

**Note:** HID fixtures must have High/Low capability and utilize the Start-to-High feature in the *RMR-6-SH*.



### 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.

### DAYLIGHTING CONTROL OPTIONS (-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 applicable 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-P) as its photocell looks out the rear of the sensor towards the skylight.

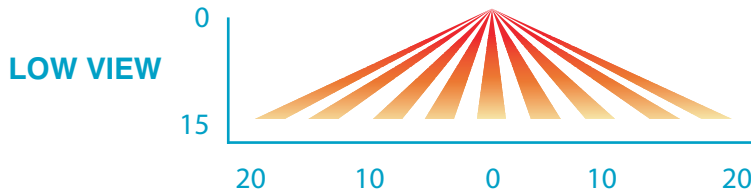
## ORDERING BLOCK

RMR-6-[DAYLIGHTING]-[START-TO-HIGH]-[VOLTAGE]-[TEMP/HUMIDITY]				
OPTIONS	DAYLIGHTING	START-TO-HIGH	VOLTAGE	TEMP/HUMIDITY
	Blank = None -P = On/Off Photocell	Blank = No Start-to-High -SH = Start-to-High	Blank = 120-277 VAC -3 = 347 VAC	Blank = 14° to 160° F -LT = 40° to 160° F

## COVERAGE PATTERN

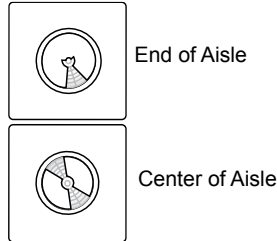
### 6 HIGH BAY 360° VIEW LENS

- 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

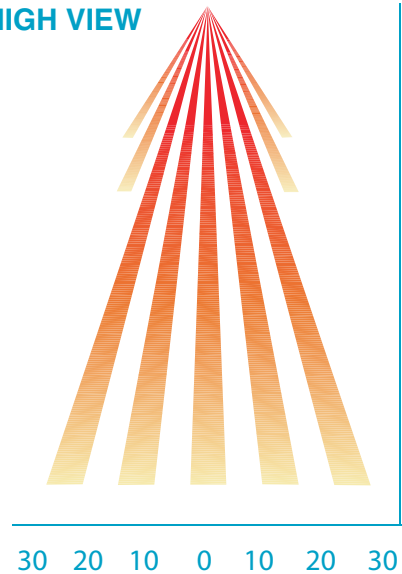


### MASKING KIT

- 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.



### HIGH VIEW



**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

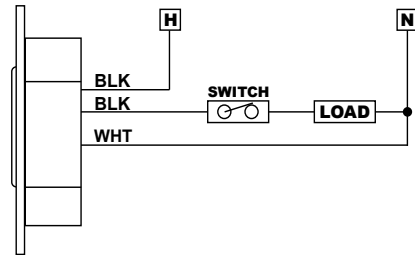
- BLACK\* - Line Input
- BLACK\* - Load Output
- WHITE - Neutral

### 347 VAC OPTION

Black wires are replaced w/ Red wires

### INITIAL POWER UP (3 MINUTE WARM-UP)

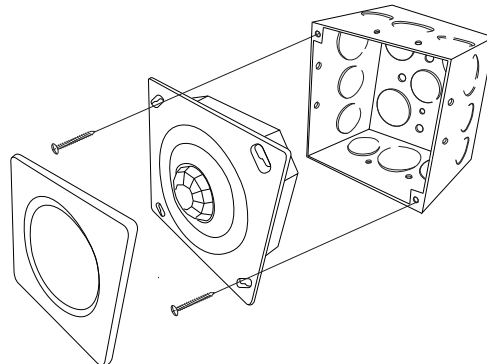
The relay in the sensor is shipped in a latched closed position so that when power is initially applied the lights will come on. The sensor will then begin to "time out" after a 1-3 minute warm-up period. If the lights do not immediately turn on (initial installation only) the latching relay opened during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



**sensorswitch**

**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.