

KEY SPECS

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

TYPICAL APPLICATIONS

Hallways
 Corridors
 T-shaped Intersections
 Pick Aisles in Distribution Centers

FEATURES

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-10 SERIES



The *RMR-10* Series incorporates Passive Infrared (PIR) technology into a line powered occupancy sensor to provide maximum viewing from the ceiling. This attractive sensor recess mounts into a 4" x 4" junction box and when mounted at 9 feet views up to 28 feet in all directions. Its circular coverage pattern is designed for "walking" motions; making it ideal for T-shaped intersections in corridors, or other areas where wall mounting a sensor is not practical. Low ceiling heights are also best covered with the *RMR-10*. For example, when mounted at only 7 feet, the height of pick aisles in many distribution centers, the *RMR-10* provides a 32 foot diameter pattern of coverage. In applications where detection of minor motion is also required, use the RMR-PDT-10 Series Dual Technology sensor.

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 field adjustments.

DAYLIGHTING CONTROL OPTIONS (-P & -ADC)

For spaces with abundant natural light from windows or skylights, this series offers an On/Off Photocell (-P) option and an Automatic Dimming Control (-ADC) Photocell option. The -P option is ideal for public areas like vestibules, corridors, or restrooms; while the -ADC option is perfect for classrooms and private offices. As the daylight levels change in the room, both options insure 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. The -ADC option allows the sensor to control a dimmable ballast. It also provides a secondary dim time-out that enables the lights to go to a dim setting after one time-out and then turn fully off after a second time-out. For more detailed information on these daylighting control features, see the CMR-PC-ADC Technical Data Sheet. **Note:** If both the -P and the -ADC options are selected the "Inhibit" mode of the -P option is not available.

ORDERING BLOCK

RMR-10-[DAYLIGHTING]-[VOLTAGE]-[TEMP/HUMIDITY]			
OPTIONS	DAYLIGHTING	VOLTAGE	TEMP/HUMIDITY
	Blank = None	Blank = 120-277 VAC	Blank = 14° to 160° F
	-P = On/Off Photocell	-3 = 347 VAC	-LT = -40° to 160° F
	-ADC = Auto Dimming Control Photocell		
	-P-ADC = On/Off & Dimming Photocell		
T111-001-P			revised 1/24/2007 © Sensor Switch, Inc. 2007

COVERAGE PATTERN

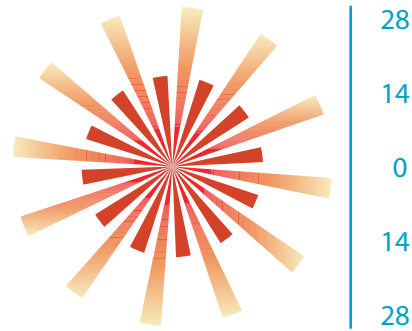
10 EXTENDED RANGE 360° LENS

- Best choice for large motion (e.g. walking) detection
- Viewing angle of 67° in a 360° conical shaped pattern
- Provides 28 ft radial coverage when mounted to standard 9 ft ceiling
- 7 to 15 ft mounting heights provide 16 to 36 ft radial coverage

SIDE VIEW



TOP 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

AUTOMATIC DIMMING CONTROL OPTION

VIOLET - Connect to Violet (Control) wire from 0-10 VDC Dimmable Ballast

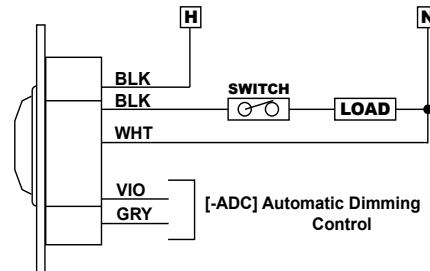
GRAY - Connect to Gray wire from ballast

SENSORS IN PARALLEL

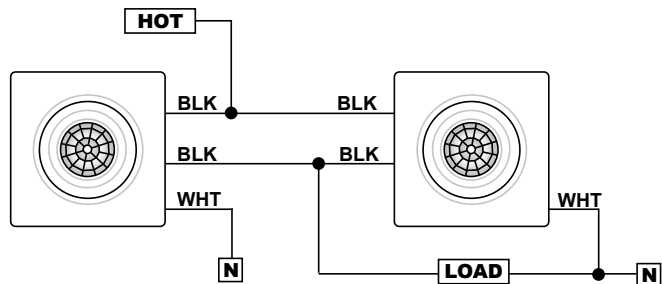
Sensors may be wired in parallel, however the maximum load ratings stay the same. Do not wire sensors with -P or -ADC option in parallel.

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.

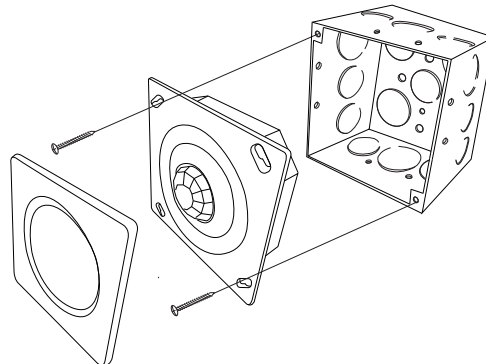


* Black wires can be reversed



INSTALLATION

- The Recessed Mount enclosure is designed to fit inside a 4" square junction box (minimum box depth 2.125").
- Place the sensor along the entrance door wall to prevent it from viewing out into the hallway, ensuring the sensor can view the entire room from this position.
- 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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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.