KEY SPECS

Lens Standard Range 360º
Enclosure Recessed Mount
Power Type Line Voltage
Detection Dual Technology (PDT)

TYPICAL APPLICATIONS

Restrooms with Stalls
Classrooms (Multiple Sensors)
Storage Rooms with Shelving

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
　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 -4ºF/20ºC

OTHER

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

RMR-PDT SERIES

The *RMR-PDT Series* occupancy sensors combine the industry's leading Passive Infrared (PIR) technology with Microphonics™ for awesome detection in areas with or without obstructions. These attractive sensors recess mount into 4" x 4" junction boxes and are perfect for classrooms or large restrooms. Simply install one *RMR-PDT* per switch and you're covered. Additionally, the *RMR-PDT* Series is line powered, therefore it requires no external Power Packs.

SENSOR OPERATIONS

Sensors with Passive Dual Technology (PDT) first "See" motion using Passive Infrared (PIR) and then engage Microphonics™ to "Hear" sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self adapt a sensor to its environment by filtering out constant background noise and detecting only noises typical of human activity. 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.

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. **Note:** If both the -P and the -ADC options are selected the "Inhibit" mode of the -P option is not available.
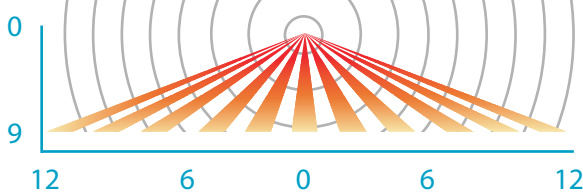
ORDERING BLOCK

RMR-PDT-[DAYLIGHTING]-[VOLTAGE]-[TEMP/HUMIDITY]

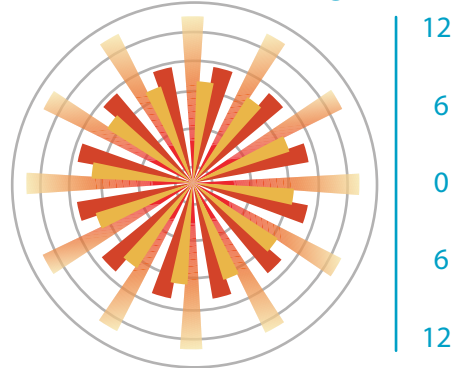| OPTIONS	DAYLIGHTING	VOLTAGE	TEMP/HUMIDITY
	Blank = None	Blank = 120-277 VAC	Blank = 14º to 160º F
	-P = On/Off Photocell	-3 = 347 VAC	-LT = -4º to 160º F
	-ADC = Auto Dimming Control Photocell		
	-P-ADC = On/Off & Dimming Photocell		

COVERAGE PATTERN

9 STANDARD RANGE 360º LENS W/ MICROPHONICS™

- Best choice for small motion (e.g. hand movements) detection
- Viewing angle of 56º in a 360º conical shaped pattern
- Provides 12 ft radial coverage when mounted to standard 9 ft ceiling
- 8 to 15 ft mounting heights provide 10 to 20 ft radial coverage
- Microphonics™ detects human activity up to 20 feet, but will detect farther in spaces with hard floors or areas with low background noise.

TOP VIEW

12
6
0
6
12

SIDE VIEW

0
9
12   6   0   6   12

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
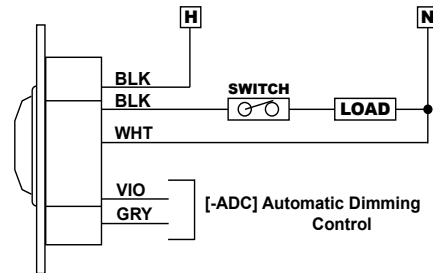GRAY - Connect to Gray wire from ballast
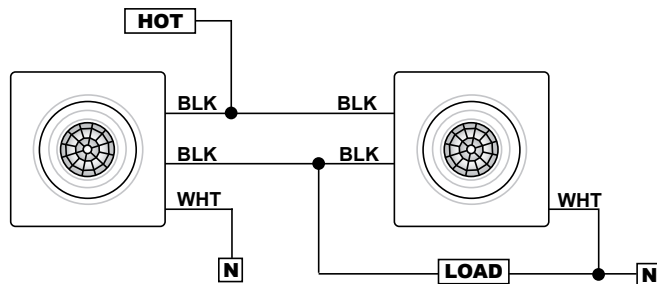
SENSORS IN PARALLEL
Sensors may be wired in parallel, however the maximum load ratings stay the same. Do not wire sensors with -P or -ADC option in parallel.

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.
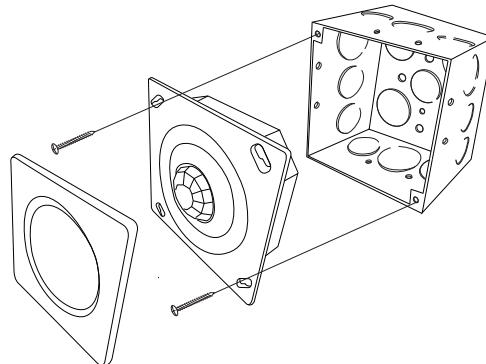
H   N
BLK
BLK   SWITCH   LOAD
WHT
VIO   [-ADC] Automatic Dimming
GRY   Control

* Black wires can be reversed

HOT
BLK   BLK
BLK   BLK
WHT   WHT
N   LOAD   N

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.
- Avoid locating sensor near HVAC air diffusers because the "noise" generated from air flow will decrease the sensitivity of the Microphonics™ sensor.

sensorswitch®