

OVERVIEW

RMR series sensor offers the reliable functionality of the standard ceiling mount with an architectural aesthetic. Recessed mount sensors are designed to fit inside a standard junction box, making installation quick and easy. Lens options include large motion extended range and small motion standard range.

These sensors are capable of covering an entire private office or small room by themselves. Multiple low voltage sensors can also work together to supply the ideal solution for oddly shaped rooms or large open office areas. A line voltage sensor provides one relay for a single-level control while the 2-pole version provides a second relay for an additional level of control. For rooms with obstructions, these sensors are also offered with Dual Technology, which adds Microphonics™ detection to the passive infrared (PIR) detection.

FEATURES

- 360° coverage pattern
- Push- button programmable, adjustable time delays, and multiple operating modes
- 100 hr lamp burn-in timer
- No field calibration or sensitivity adjustments required
- Convenient test mode
- Green LED indicator
- Minimum on-timer (LampMaximizer®)

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.



RMR Family
Line Voltage Recessed
Mount Occupancy Sensor



ORDERING INFORMATION

Example: RMR PDT 9 LT				
Series	Detection Technology	Coverage Type	Relay	Dimming
RMR Recessed Mount Sensor	[blank] PIR PDT ^{1,3} Dual Technology (PIR/Microphonics)	6 High Bay 360° 9 Small Motion 360° 10 Large Motion 360° 50 High Bay Aisleway	[blank] None 2P Dual relay	[blank] None D ^{3,5} Occupancy Controlled Dimming P Photocell ADC ^{2,3,5} Photocell w/ dimming DZ ⁴ Dual Zone Photocell

Voltage	Temp/Humidity
[blank] 120/230/277 VAC 208 ³ 208 VAC 347 347 VAC 480 ³ 480 VAC	[blank] Standard LT Low Temp/High humidity

Notes:

1. PDT option not available on RMR 6 models.
2. ADC option not available on RMR 6 models.
3. Not available with 2P option.
4. Not available with single relay option.

SPECIFICATIONS

Electrical

Input Ratings	120/220/230/277, 80 mA, 50/60 Hz 347V, 80 mA, 50/60 Hz 480V, 80 mA, 50/60Hz
Output Ratings	120V, 800W/6.67A - Tungsten, Ballast 120/220/230/277V, 4.3A, 1200W, Ballast. 120V, 5A, General Purpose 220/230/277V, 4.3A, General Purpose.
Relay Type	Latching
Low Voltage Output Ratings	0-10VDC, Sinks <20mA
Class Rating	0-10V Dimming can be wired Class 1 or 2; Do not include if only Class 1
Standards/ Ratings	Energy Management Equipment, UL916 (E167435)

Mechanical

Dimensions	4.55"W x 1.55"D (116mm x 40mm)
Mounting	Single-Gang or Octagonal Box, Surface Mount
Color	White
Finish	Matte
Connection Type	Line-Voltage Leads

Environmental

Warrantied Operating Temperature	Standard: 14°F to 185°F (-10°C to 85°C) PDT option: 14°F to 140°F (-10°C to 60°C) LT option: -4°F to 185°F (-20°C to 85°C) PDT LT options: -4°F to 140°F (-20°C to 60°C)
Relative Humidity	Up to 90%, Non-Condensing
Environment	Indoor
Standards/ Ratings	RoHS

WIRING (DO NOT WIRE HOT)

TYPICAL WIRING SINGLE RELAY

STANDARD WIRING

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

*BLACK wires can be reversed

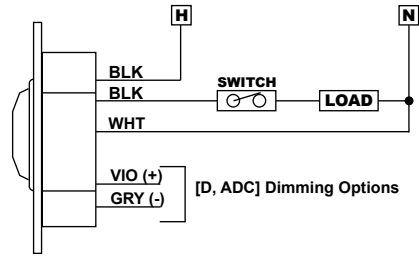
DIMMING OPTIONS (D, ADC)

VIOLET - Connect to Violet control wire from 0-10 VDC dimmable ballast
GRAY - Connect to Gray common wire from ballast

INITIAL POWER UP

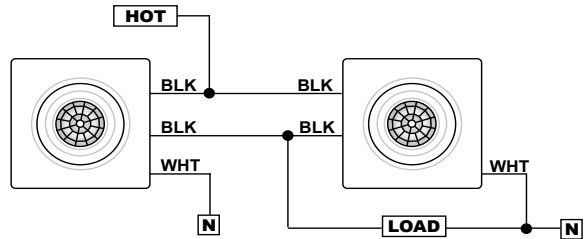
The sensor's relay is shipped in a latched closed position so the lights will come on upon initial power-up. If the lights do not immediately turn on (initial installation only) the latching relay opened during shipment and will close within 30 secs.

Note: If the sensor loses power, the internal relay will latch to on.



SENSORS IN PARALLEL

Standard sensors (without P or ADC option) may be wired in parallel.

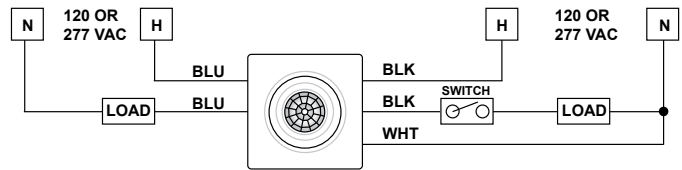


TYPICAL WIRING DUAL RELAY

STANDARD WIRING

BLACK* - Line Input 1
BLACK* - Load Output 1
BLUE** - Line Input 2
BLUE** - Load Output 2
WHITE - Neutral

*BLACK wires can be reversed
 **BLUE wires can be reversed



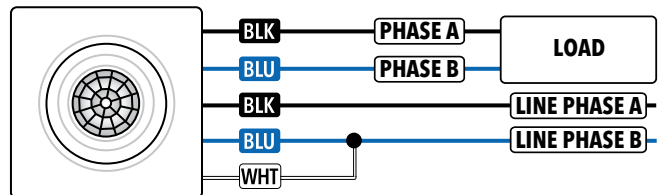
347 VAC OPTION (347)

Black wires are replaced w/ Red wires

208, 480 VAC WIRING

For 480 VAC version the white wire connects to either the phase 1 or phase 2 line input.

BLACK Line Phase A
BLACK Phase A Load
BLUE Line Phase B
BLUE Phase B Load
WHITE Connect to either Line Phase

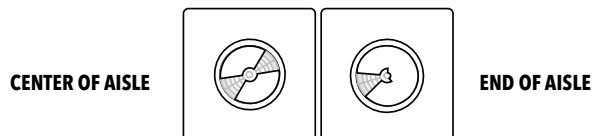


*Black wires can be reversed

**Blue wires can be reversed

MASKING KIT

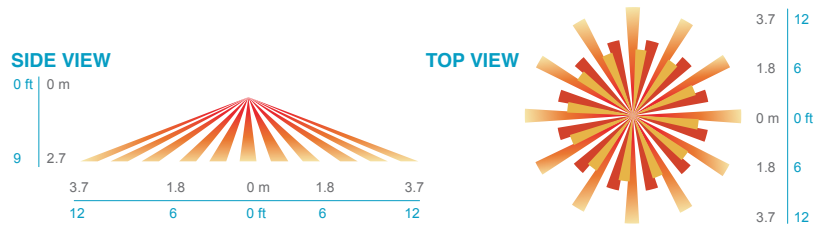
- A label kit is included to mask off half of the sensor's coverage pattern for end of aisle, or trim the side viewing to create a rectangular pattern for center of aisle.



COVERAGE PATTERN

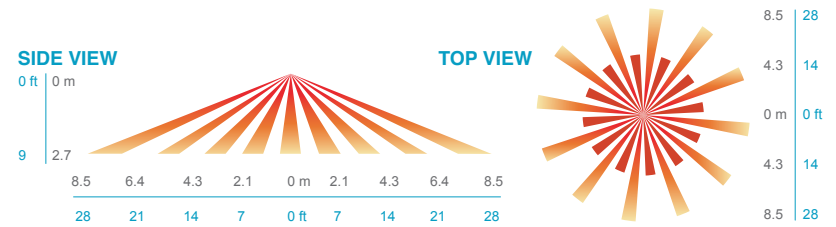
Small Motion 360° (Model # RMR 9 / RMR PDT 9')

- Best choice for small motion (e.g. hand movements) detection
- 360° conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage (~500 ft²) when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage
- Lens assembly is marked with a gray ring around lens to differentiate versus the #10 lens
- Tested to NEMA WD 7-2011



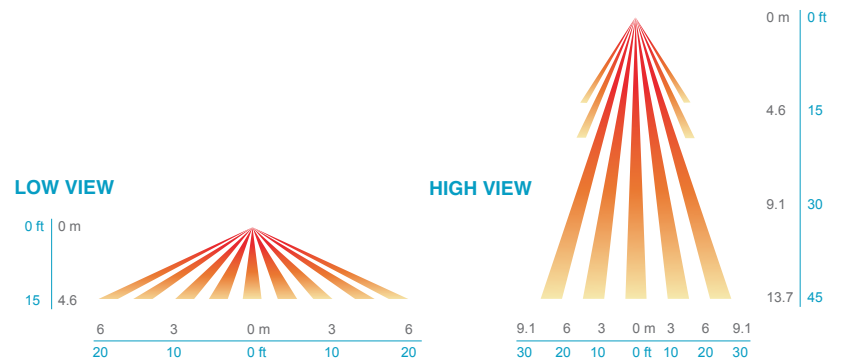
Large Motion 360° (Model # RMR 10 / RMR PDT 10')

- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft²) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams
- Tested to NEMA WD 7-2011



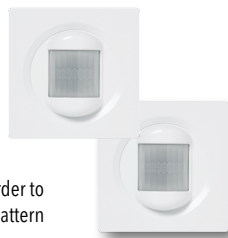
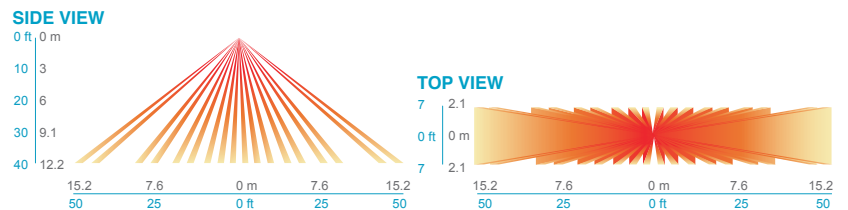
High Mount 360° (Model # RMR 6)

- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to 35 ft (10.76 m)
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m)
- Tested to NEMA WD 7-2011



HIGH BAY AISLEWAY LENS (Model # RMR 50)

- Provides 50° bi-directional and 10° wide coverage pattern
- 1.2x mounting height equals approximate detection range in either direction
- Typical 40 ft (12.19 m) mounting detects 50 ft (15.24 m) in either direction



90° LENS ROTATION

The sensors lens turret rotates 90° in order to easily adjust the direction of the view pattern