

OVERVIEW

The CMR 9 Series Standard Range 360° occupancy sensor incorporates Passive Infrared (PIR) detection technology into an attractive line powered occupancy sensor that provides amazing sensitivity to small motions (e.g. hand movements) and excellent payback. The CMR 9 is an economical solution for providing automatic lighting control where a wall switch replacement sensor is not applicable. With an integrated line switching relay, the CMR 9 is perfect for applications where locating a power pack is difficult, such as retrofitting rooms with concrete or inaccessible ceilings. For rooms with obstructions, the CMR PDT 9 Series sensor is recommended. With optional flash programming via the Sensor Switch VLP mobile device application, the user can easily change time delay, on mode and photocontrol settings.

FEATURES

- Push-Button Programmable, Adjustable Time Delays, and Multiple Operating Modes
- 100 Hour Lamp Burn-in Timer Mode
- No Field Calibration or Sensitivity Adjustments Required
- No Minimum Load Requirements

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/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice



*CMR 9
CMR PDT 9
Standard Range 360°
Sensor*



ORDERING INFORMATION

CMR 9		Example: CMR 9 ADC LT		
Series	Detection Technology	Coverage Type	Relay	
CMR Ceiling Mount Sensor	[blank] PIR PDT Dual Technology (PIR / Microphonics)	9 Small Motion 360°	[blank] Single Relay 2P Dual Relays	

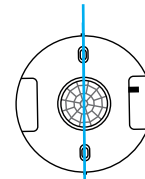
Control Type	Voltage	Visible Light Programming	Temp/Humidity
[blank] None D ¹ Occupancy Controlled Dimming DZ ² Dual Zone Photocell P Photocell ADC ¹ Photocell w/ Dimming	[blank] 120/277 VAC 347 347 VAC	[blank] None VLP ^{1,3} Visible Light Programming	[blank] Standard LT Low Temp/High Humidity

- Notes
1. Not available with 2P option.
 2. Not available with single relay option.
 3. PDT Required.

COVERAGE PATTERNS

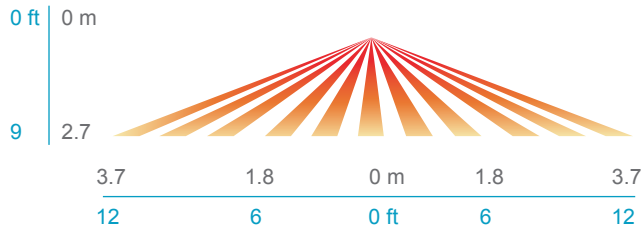
STANDARD RANGE 360° LENS

- Best choice for small motion (e.g. hand movements) detection
- Viewing angle of 56° in a 360° conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage 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

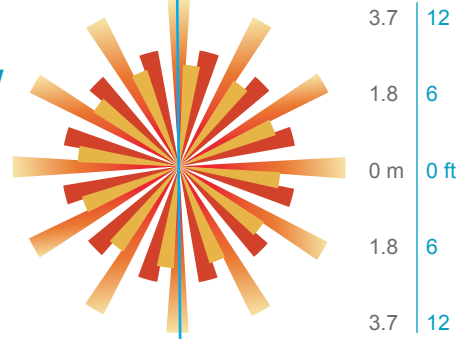


Note: Screw axis is aligned with a long detection segment

SIDE VIEW



TOP VIEW



TYPICAL WIRING SINGLE RELAY

STANDARD WIRING

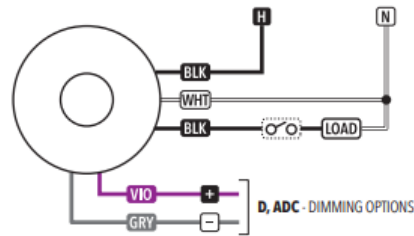
- BLACK* - Line Input
 - BLACK* - Load Output
 - WHITE - Neutral
- *BLACK wires can be reversed

347 VAC OPTION (347)

Black wires are replaced w/ Red wires

DIMMING OPTIONS (D, ADC)

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



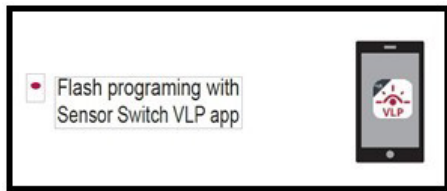
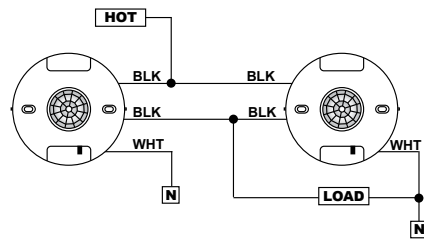
INITIAL POWER UP

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

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.



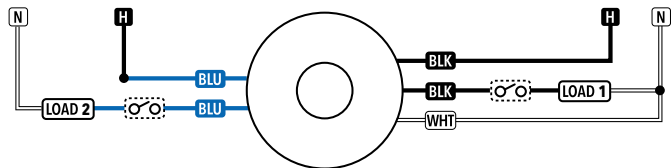
TYPICAL WIRING DUAL RELAY

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



SPECIFICATIONS

Electrical

Input Ratings	120/277V, 80 mA, 50/60Hz 347V, 80 mA, 50/60Hz 480V, 80 mA, 50/60Hz
Output Ratings	120V, 800W/6.67A - Tungsten, Ballast 120V, 5A - General Purpose 277V, 1200VA/4.3A - Ballast 347V, 4.3A - General Purpose 480V, 5A - General Purpose 125V, 1/4HP - Motor
Relay Type	Latching
Low Voltage Output Ratings	0-10VDC, Sinks <20mA
Class Rating	0-10V Dimming can be wired Class 1 or 2; <u>Do not include if only Class 1</u>
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 140°F (-10°C to 60°C) LT Option: -4°F to 140°F (-20°C to 60°C)
Relative Humidity	Up to 90%, Non-Condensing
Environment	Indoor
Standards/ Ratings	RoHS