

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. 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

sensorswitch®

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

Notes

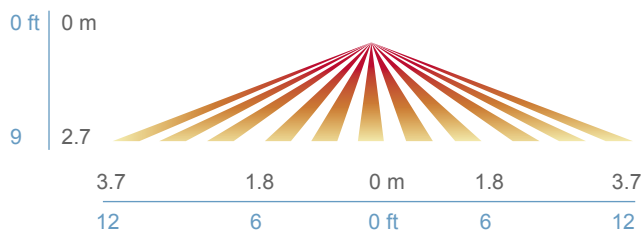
1. Not available with 2P option.
2. Not available with single relay option.
3. PDT Required.

COVERAGE PATTERNS

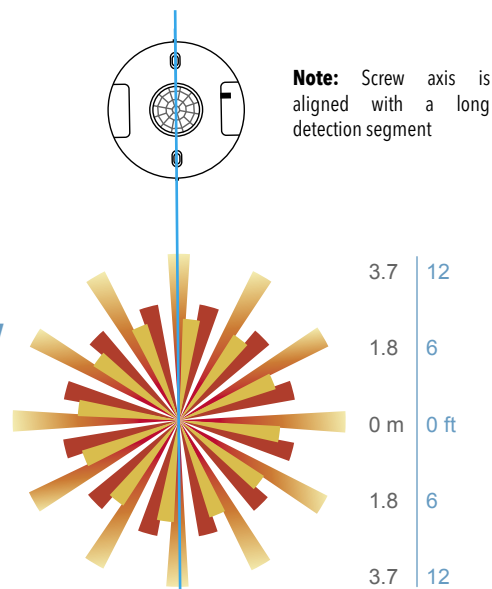
STANDARD RANGE 360° LENS

- 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

SIDE VIEW



TOP VIEW



TYPICAL WIRING SINGLE RELAY

STANDARD WIRING

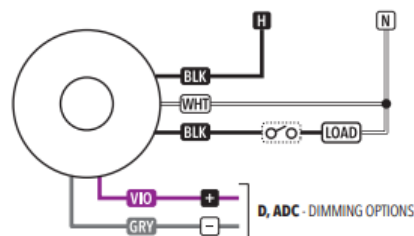
- BLACK* - Line Input
 - BLACK* - Load Output
 - WHITE - Neutral
- *BLACK wires can be reversed

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



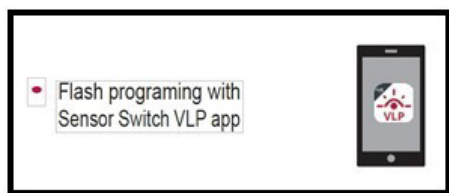
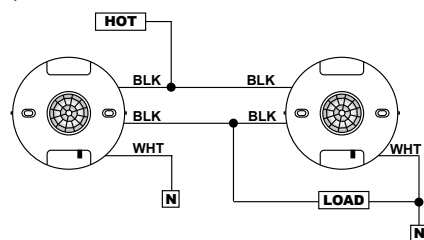
INITIAL POWER UP

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.



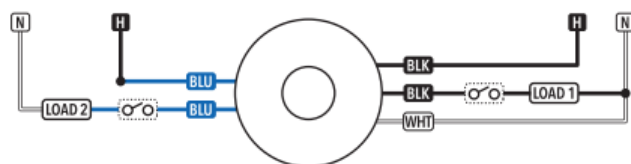
TYPICAL WIRING DUAL RELAY

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