

## OVERVIEW

The CMR 10 Series incorporates Passive Infrared (PIR) technology into an attractive and economical line powered sensor to provide maximum viewing from the ceiling. When mounted at 9 ft (2.74 m), this sensor views up to 28 ft (8.53 m) 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 CMR 10. For example, when mounted at only 7 ft (2.13 m), the height of pick aisles in many distribution centers, the CMR 10 provides a 32 ft (9.75 m) diameter pattern of coverage. For detection of minor motion is also required, the CMR PDT 10 Series Dual Technology 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 hr lamp burn-in timer
- No field calibration or sensitivity adjustments required

## Warranty

Five-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/customer-support/terms-and-conditions](http://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.

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# sensorswitch®

**CMR 10**  
**CMR PDT 10**  
*Extended Range 360° Sensor*



## ORDERING INFORMATION

| CMR 10  |   |  |   | Example: CMR 10 ADC LT |
|---|---|--|---|------------------------|
| Series  | Detection Technology  | Coverage Type                                | Relay   |                        |
| CMR Ceiling Mount Sensor                      | [blank] PIR<br>PDT <sup>1</sup> Dual Technology (PIR/ Microphonics) | 10 Large Motion 360°                         | [blank] Single Relay<br>2P <sup>1</sup> Dual Relays |                        |
| Control Type                                  | Voltage   | Visible Light Programming                    | Temp / Humidity                                     |                        |
| [blank] None                                  | [blank] 120/277 VAC   | [blank] none                                 | [blank] Standard                                    |                        |
| D <sup>1 2</sup> Occupancy Controlled Dimming | 347 347 VAC   | VLP <sup>2 4</sup> Visible Light Programming | LT Low Temp/ High Humidity                          |                        |
| DZ <sup>1 3</sup> Dual Zone Photocell         |   |  |   |                        |
| P Photocell                                   |   |  |   |                        |
| ADC <sup>1 2</sup> Photocell w/ Dimming       |   |  |   |                        |

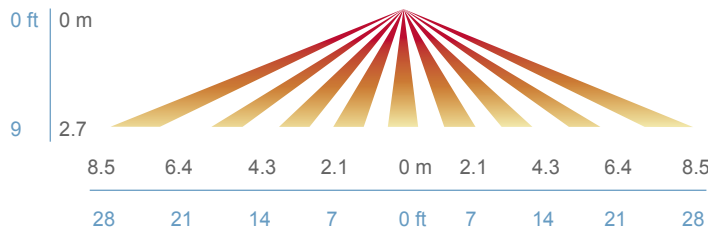
1. Not available with 480 option.
2. Not available with 2P option.
3. Not available with single relay option.
4. Requires PDT.

## COVERAGE PATTERN

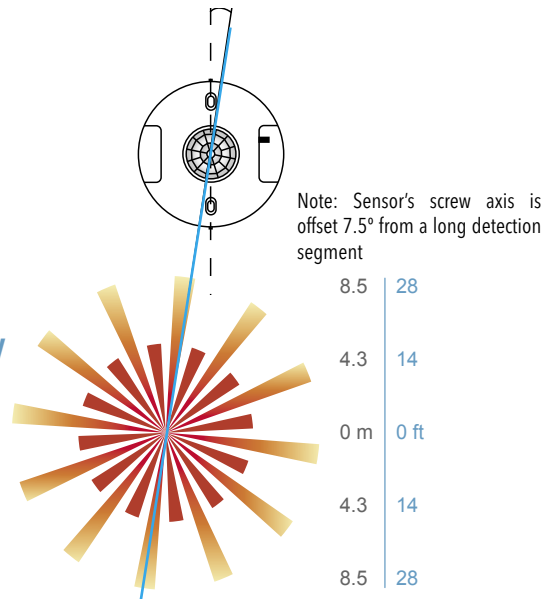
### EXTENDED RANGE 360° LENS

- Best choice for large motion detection (e.g. walking)
- Viewing angle of 67° in a 360° conical shaped pattern
- Provides 28 ft (8.53 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 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

#### 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)

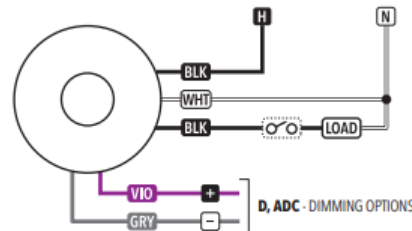
**VIOLET** - Connect to Violet control wire from 0-10 VDC dimmable ballast

**GRAY** - Connect to Gray common wire from ballast

#### INITIAL POWER UP

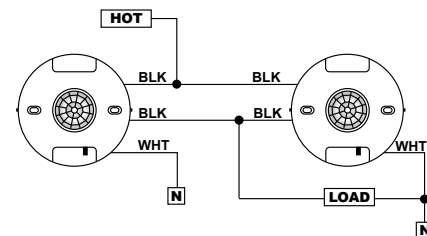
The sensor's relay is shipped in a latched closed position so the lights will come on upon initial power-up. If the lights do not immediately turn on (initial installation only) the latching relay opened during shipment and will close within 30 secs.

**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.



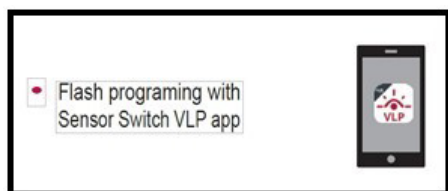
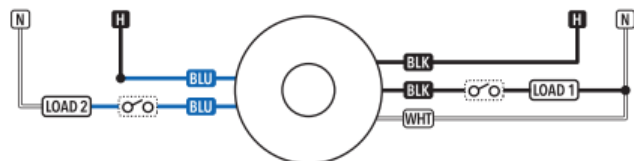
### TYPICAL WIRING DUAL RELAY

#### 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



CMR 10 (TS-CMR-001A)

## SPECIFICATIONS

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|               |  |  |
|---------------|--|--|
| Electrical    | <b>Input Ratings</b>                     | 120/277V, 80 mA, 50/60Hz<br>347V, 80 mA, 50/60Hz<br>480V, 80 mA, 50/60Hz   |
|               | <b>Output Ratings</b>                    | 120V, 800W/6.67A - Tungsten, Ballast<br>120V, 5A - General Purpose<br>277V, 1200VA/4.3A - Ballast<br>347V, 4.3A - General Purpose<br>480V, 5A - General Purpose<br>125V, 1/4HP - Motor |
|               | <b>Relay Type</b>                        | Latching   |
|               | <b>Low Voltage Output Ratings</b>        | 0-10VDC, Sinks <20mA   |
|               | <b>Class Rating</b>                      | 0-10V Dimming can be wired Class 1 or 2; <u>Do not include if only Class 1</u>   |
|               | <b>Standards/ Ratings</b>                | Energy Management Equipment, UL916 (E167435)   |
| Mechanical    | <b>Dimensions</b>                        | 4.55"W x 1.55"D (116mm x 40mm)   |
|               | <b>Mounting</b>                          | Single-Gang or Octagonal Box, Surface Mount  |
|               | <b>Color</b>                             | White  |
|               | <b>Finish</b>                            | Matte  |
| Environmental | <b>Connection Type</b>                   | Line Voltage Leads   |
|               | <b>Warrantied Operating Temperature:</b> | Standard: 14°F to 140°F (-10°C to 60°C)<br>LT Option: -4°F to 140°F (-20°C to 60°C)  |
|               | <b>Relative Humidity</b>                 | Up to 90%, Non-Condensing  |
|               | <b>Environment</b>                       | Indoor   |
|               | <b>Standards/ Ratings</b>                | RoHS   |