

## 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.

## FEATURES

- Push- button programmable, adjustable time delays, and multiple operating modes
- 100 hr lamp burn-in timer
- No field calibration or sensitivity adjustments required

## SPECIFICATIONS

Size:	4.55" diameter and 1.55" deep
Weight:	6 oz
Mounting:	3.5" octagon box, ceiling tile surface, single gang box
Color:	White
Maximum Load(per pole):	800W @ 120 VAC, 1200W @ 277 VAC, 1500W @ 347 VAC
Motor Load:	1/4 HP
Frequency:	50/60Hz
Dimming Load:	Sinks <20 mA; ~40 Ballasts @ .5 mA each

ROHS compliant

## Warranty

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

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

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



## ORDERING INFORMATION

CMR 10		Example: CMR 10 ADC LT	
<b>Series</b>	<b>Detection Technology</b>	<b>Coverage Type</b>	<b>Relay</b>
CMR Ceiling Mount Sensor	[blank] PIR PDT <sup>1</sup> Dual Technology (PIR/ Microphonics)	10 Large Motion 360°	[blank] Single Relay 2P <sup>1</sup> Dual Relays

<b>Control Type</b>		<b>Voltage</b>		<b>Temp / Humidity</b>	
[blank]	None	[blank]	120/277 VAC	[blank]	Standard
D <sup>1 2</sup>	Occupancy Controlled Dimming	347	347 VAC	LT	Low Temp/ High Humidity
DZ <sup>1 3</sup>	Dual Zone Photocell	480 <sup>2</sup>	480 VAC		
P	Photocell				
ADC <sup>1 2</sup>	Photocell w/ Dimming				

<sup>1</sup>Not available with 480 option

<sup>2</sup>Not available with 2P option

<sup>3</sup>Not available with single relay option

**AcuityControls**  
*Sensor Switch™*

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

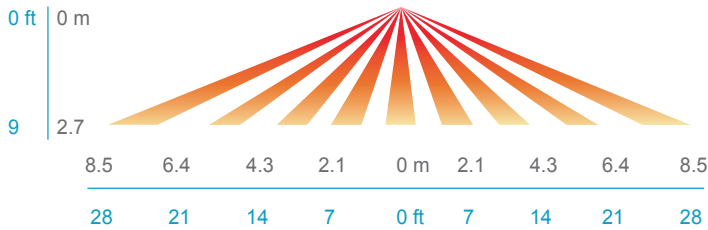


## COVERAGE PATTERN

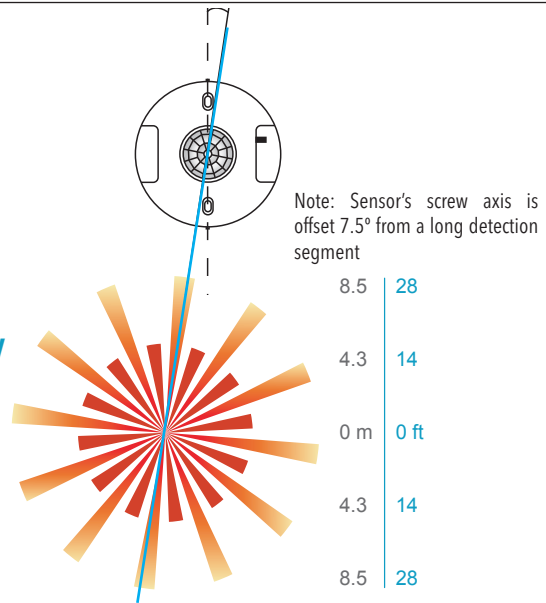
### EXTENDED RANGE 360° LENS

- 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

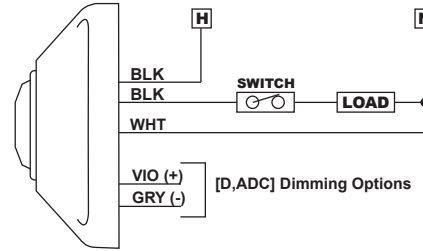
#### DIMMING OPTIONS (D, ADC)

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

#### INITIAL POWER UP

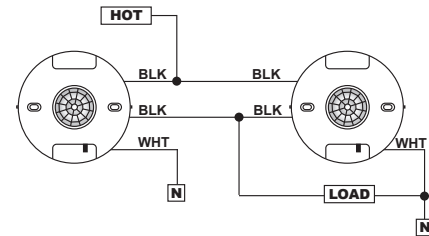
The sensor's relay is shipped in a latched closed position so the lights will come on upon initial power-up. If the lights do not immediately turn on (initial installation only) the latching relay opened during shipment and will close within 30 secs.

**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.



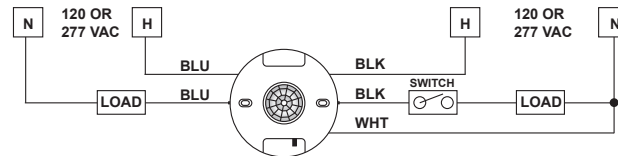
### TYPICAL WIRING DUAL RELAY

#### 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)

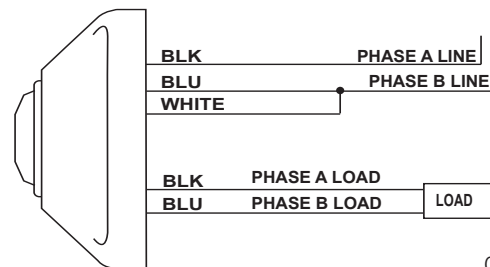
Black wires are replaced w/ Red wires



### TYPICAL WIRING 480V

#### STANDARD WIRING

- BLACK\*** - Phase A Line Input
  - BLACK\*** - Phase A Load Output
  - BLUE\*\*** - Phase B Line Input
  - BLUE\*\*** - Phase B Load Output
  - WHITE** - Connect to either Line Input
- \*BLACK wires can be reversed  
\*\*BLUE wires can be reversed



CMR 10 (TS-CMR-001A)