Catalog Number: | Date: | Project:

OVERVIEW

CMR is a family of line voltage occupancy sensors for applications with finished ceilings (e.g. ceiling tiles, sheet-rock, or plaster) for residential, commercial and High Bay Industrial applications. With a variety of lens options, CMR sensors utilize 100% passive Infrared detection and is powered directly from line voltage without the need of a power pack. For added occupancy detection capabilities, dual technology (PDT) can be added as an option for applications where occupants are stationary for a long periods of time. Programming CMR sensor setting can easily be acheived via push button or optional flash programming via the SensorSwitch VLP Mobile App. With either programing method, the user can change time delay.

FEATURES

- Configurable using the Sensor Switch Mobile App
- 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

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

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

sensorswitch®

CMR

Line Voltage Ceiling Mount Occupancy Sensor



Available on the App Store | ANDROID APP ON Google play | VLP | RoHS COMPLIANT | c UL US LISTED

Design Select options indicated by this color background.

ORDERING INFORMATION

CMR Family — Example: CMR PDT 9 LT

CMR							
Series	**Detection Technology**	**Coverage Type**	**Relay**	**Dimming**	**Voltage**	**Visible Light Programming[3]**	**Temp/Humidity**
CMR Ceiling Mount Sensor	[blank] PIR PDT[1,4] Dual Technology (PIR/Microphonics)	6 High Bay 360° 9 Small Motion 360° 10 Large Motion 360°	[blank] None 2P[4] Dual Relay	[blank] None D[4,5] Occupancy Controlled Dimming P Photocell ADC[2,4,5] Photocell w/ Dimming DZ[4,6] Dual Zone Photocell	[blank] 120/230/277 VAC 208 208VAC 347 347 VAC 480 480VAC	[blank] None VLP[4,5] 6 - 12" Range Flash Programming via the Sensor Switch Mobile App	[blank] Standard LT Low Temp/ High humidity

Accessory Cover

CMR		
Series	**Color Finish**	**Packaging**
CM COVER Ceiling Mount Sensor Cover	RD Red BK Black WH White	M5 Master pack of five

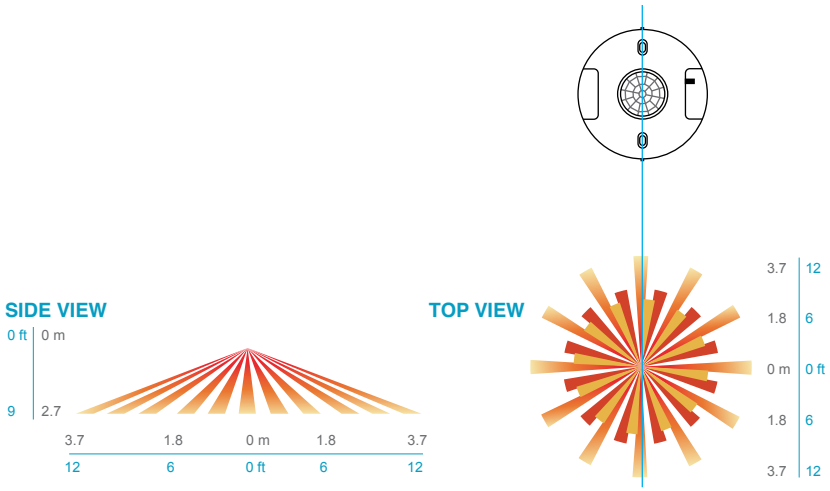
Notes
1. PDT option not available on CMR 6 models.
2. ADC option not available on CMR 6 models.
3. All CMR devices support push button programming. VLP nomenclature must be specified to enable functionality.
4. Not available with 208, 480 option.
5. Not available with 2P option.
6. Not available with single relay option.

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COVERAGE PATTERNS

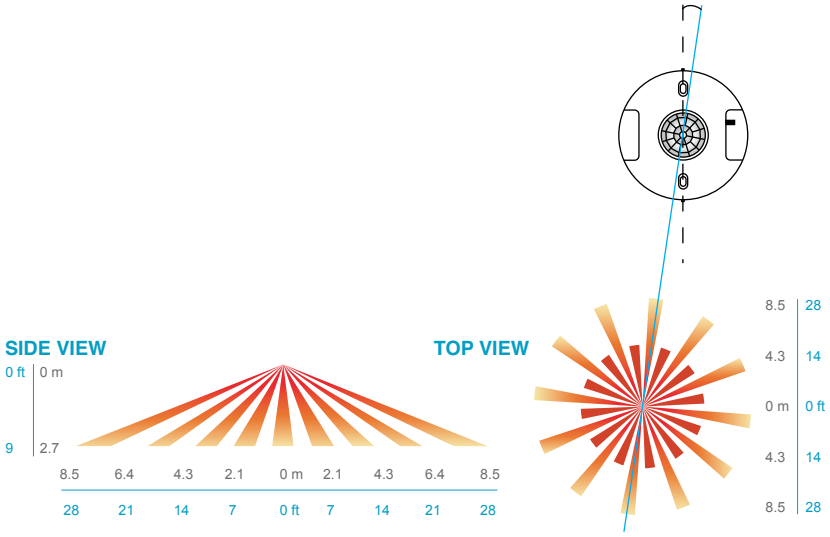
Small Motion 360° (Model # CM 9/ CM PDT 9[1])

- 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



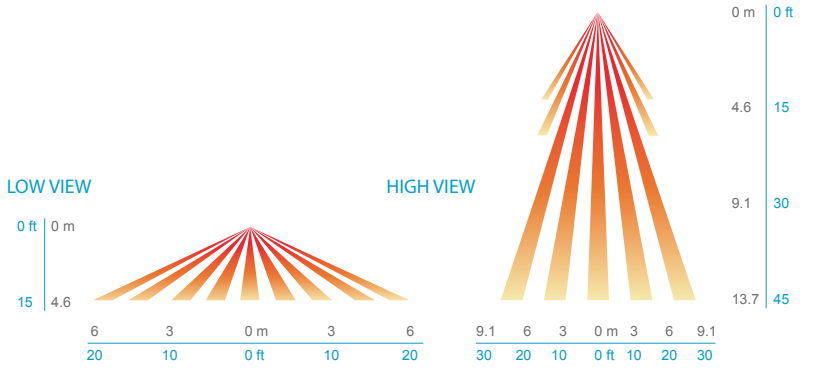
Large Motion 360° (Model # CM 10/ CM PDT 10[1])

- 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 # CM 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



1. Sensors with Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is also utilized to prevent non-occupant noises from keeping the lights on.

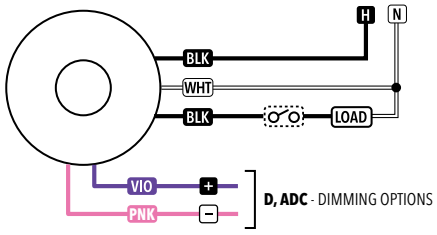
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WIRING (DO NOT WIRE HOT)

TYPICAL WIRING SINGLE RELAY

STANDARD WIRING

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



DIMMING OPTIONS (D, ADC)

VIOLET - Connect to Violet control wire from 0-10 VDC dimmable ballast
PINK - Connect to Pink common wire from ballast

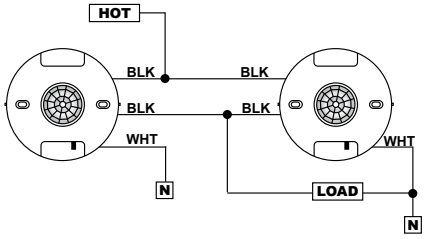
INITIAL POWER UP

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

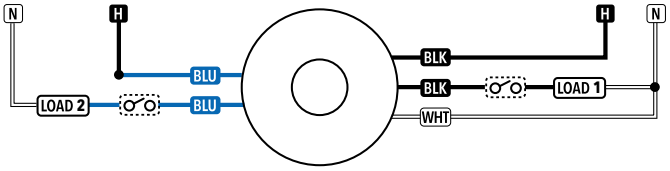
Sensors may be wired in parallel; however, the maximum load ratings stay the same. Do not wire sensors with P or ADC option in parallel.



TYPICAL WIRING DUAL RELAY

STANDARD WIRING

BLACK* - Line Input 1
BLACK* - Load Output 1 } *BLACK wires can be reversed
BLUE** - Line Input 2
BLUE** - Load Output 2 } **BLUE wires can be reversed
WHITE - Neutral



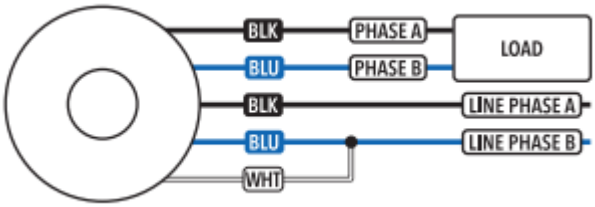
347 VAC OPTION (347)

Black wires are replaced w/ Red wires

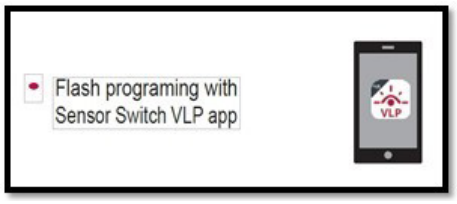
208, 480 VAC WIRING

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



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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 220/230/277/347V, 4.3A, General Purpose 480V, 5A, Ballast
	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

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