OVERVIEW

The CMR PC Series of On/Off Photocell sensors are ideal for public spaces with windows like vestibules, corridors, or bathrooms; the sensors work by monitoring daylight conditions in a room, then controlling the lighting so as to insure that adequate lighting levels are maintained. The CMR PC has on/off lighting control; turning off the lights when sufficient daylight is present and turning them on when additional lighting is necessary.

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.

The CM PC ADC Series combines the CM PC On/Off Photocell sensor with the CM ADC Automatic Dimming Control sensor to provide the industry's most intelligent control of lighting for daylight harvesting applications. Ideal for public spaces with windows like vestibules, corridors, or bathrooms; the sensors work by monitoring daylight conditions in a room, then controlling the lighting so as to insure that adequate lighting levels are maintained.

FEATURES

- Push- button programmable, adjustable time delays, and multiple operating modes
- 100 hr lamp burn-in timer
- No field calibration or sensitivity adjustments required
- Capable of finding optimum set-point
- Digital Set-Point Control
- Dimming sinks up to 20 mA

Buy American (BAA)
This product is assembled in the USA and meets The Buy America(n) government procurement Requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/but-american for additional information.

Warranty
Five-year limited warranty. 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.

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sensorswitch®

CMR BAA
CMRB BAA
360° Sensor Series

Buy American

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ORDERING INFORMATION

CMR 10 — **Example: CMR PDT 10 BAA**

Series	Detection Technology	Coverage Type	Relay
CMR Ceiling Mount Sensor	[blank] PIR	6 High Mount 360°	[blank] Single Relay
CMRB[1] Fixture Mount Sensor	PDT Dual Technology (PIR/ Microphonics)	9 Small Motion 360°	2P[2] Dual Relays
		10 Large Motion 360°	

Control Type	Voltage	Buy American Act
[blank] None	[blank] 120/277 VAC	BAA
D[1,2] Occupancy Controlled Dimming		
DZ[1,3] Dual Zone Photocell		
P Photocell		
ADC[1,2] Photocell w/ Dimming		

1. Only available with 9 or 6 lens.
2. 2P only offered with 9 lens.

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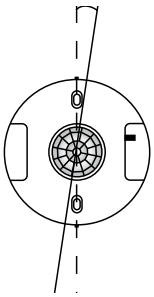
COVERAGE PATTERN

EXTENDED RANGE 360º LENS

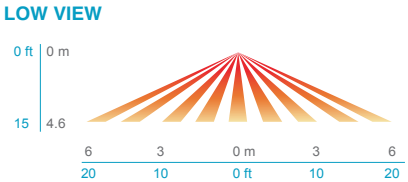
- Best choice for large motion detection (e.g. walking)
- Viewing angle of 67º in a 360º conical shaped pattern
- Provides 28 ft (8.53 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage

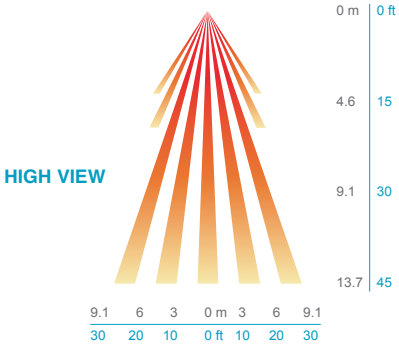


Note: Sensor's screw axis is offset 7.5º from a long detection segment

HIGH MOUNT 360º LENS (#6)

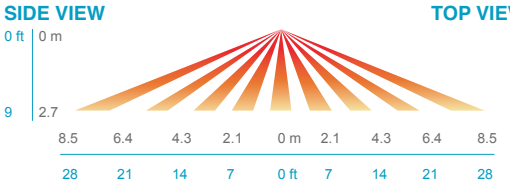
- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height
- Tested to NEMA WD 7-2011

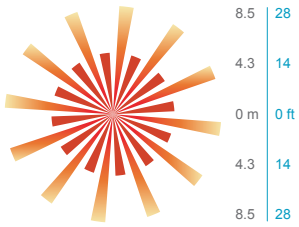




LOW MOUNT 360º LENS (#10)

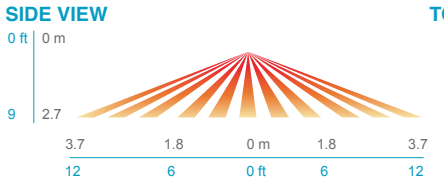
- Best choice for large motion detection (e.g. walking)
- 360º conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft²) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams

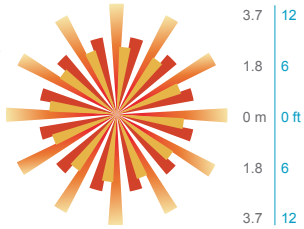




SMALL MOTION 360º LENS (#9)

- Best choice for small motion (e.g. hand movements) detection
- 360º 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





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TYPICAL WIRING

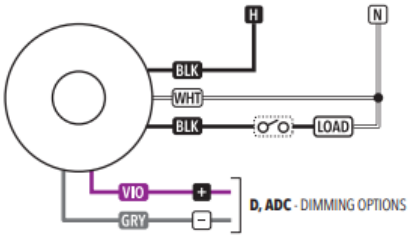
TYPICAL WIRING SINGLE RELAY

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
GRAY - Connect to Gray common wire from ballast



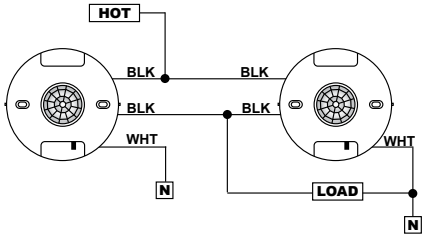
INITIAL POWER UP

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

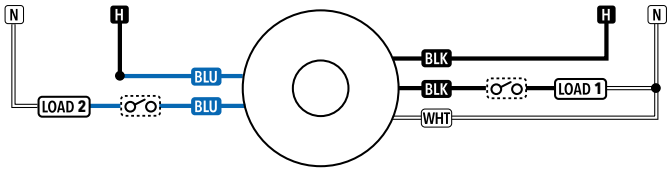
Sensors may be wired in parallel; however, the maximum load ratings stay the same. Do not wire sensors with P or ADC option in parallel.



TYPICAL WIRING DUAL RELAY

STANDARD WIRING

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



SPECIFICATIONS

Electrical	**Input Ratings**	120/277V, 80 mA, 50/60Hz
	Output Ratings	120V, 800W/6.67A - Tungsten, Ballast 120V, 5A- General Purpose 277V, 1200VA/4.3A - Ballast 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; 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 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

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