

CEILING MOUNT

Sensors



Overview

Ceiling mount sensors are offered in a multitude of configurations which address many applications. Lens options include large motion extended range, small motion standard range and bi-directional for hallways. Available in low voltage and line voltage models, these sensors are capable of covering an entire private office or small room by themselves. Multiple low voltage sensors can also work together to supply the ideal solution for oddly shaped rooms or large open office areas. A line voltage sensor provides one relay for a single-level control, while the 2-pole version provides a second relay for an additional level of control. For rooms with obstructions, these sensors are also offered with Dual Technology, which adds Microphonics™ detection to the Passive Infrared (PIR) detection.

Features (All)

- 30 sec to 30 min time delay
- Digital PIR detection - excellent RF immunity
- Push-button programmable
- Minimum On-Timer (LampMaximizer®)
- Convenient test mode
- Green LED status Indicator

Features (Line voltage)

- Self-contained relay(s)
- No minimum load
- Miswire protection, reversible line & load connections

ADDITIONAL INFORMATION

For additional product information, visit www.acuitycontrols.com.

SPECIFICATIONS

PHYSICAL	ELECTRICAL - LOW VOLTAGE	ELECTRICAL - LINE VOLTAGE	ENVIRONMENTAL
<p>SIZE: 4.55" diameter (11.56 cm) 1.55" deep (3.94 cm)</p> <p>WEIGHT: 6 oz</p> <p>MOUNTING: 3.5" octagon box, or single gang handy box</p> <p>COLOR: Matte White</p>	<p>OPERATING VOLTAGE: 12-24 VAC/VDC</p> <p>RECOMMENDED POWER PACK: PP20</p> <p>CURRENT DRAW: Standard, 4 mA w/ R option, 16 mA</p> <p>WIRING DIAGRAM(S): See Figure # 8 on Page 84</p>	<p>LOAD RATING: 800 W @ 120 VAC 1200 W @ 277 VAC 1500 W @ 347 VAC</p> <p>MOTOR LOAD: 1/4 HP</p> <p>FREQUENCY: 50/60 Hz</p> <p>WIRING DIAGRAM(S): See Figure # 9 & 10 on Page 84</p>	<p>OPERATING TEMP: 14° to 160° F (-10° to 71° C)</p> <p>STORAGE TEMP: -14° to 160° F (-26° to 71° C)</p> <p>RELATIVE HUMIDITY: 20 to 90% non-condensing</p> <p>ROHS COMPLIANT</p>

OPTION INFORMATION

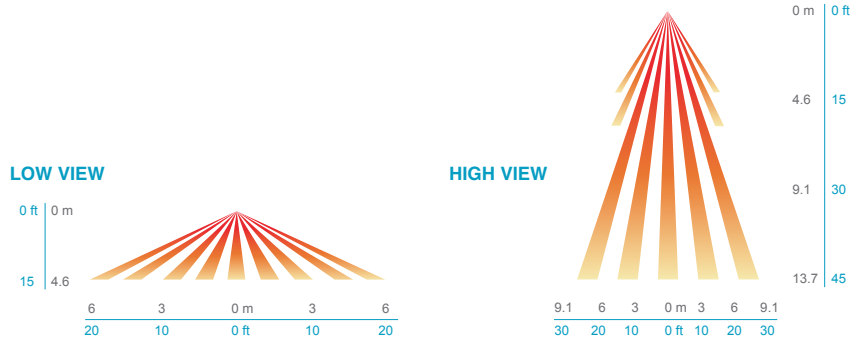
- | | | | |
|---|--|---|---|
| <p>R Low Voltage Relay</p> <ul style="list-style-type: none"> • Enables sensors to interface with other systems (e.g. BMS, lighting panels) • Provides dry contact closure via a SPDT, 1 amp, 30 volt relay (resistive loads only) | <p>ADC Automatic Dimming Control Photocontrol</p> <ul style="list-style-type: none"> • Photocontrol within sensor maintains total room light level by controlling levels of 0-10 VDC dimmable ballasts/drivers • Photocontrol also has full on/off control during periods of occupancy • Provides a second occupancy time-out period that enables lights to go a dim setting before turning off | <p>DZ Dual Zone Photocontrol</p> <ul style="list-style-type: none"> • Provides more advanced control than P option • DUO operation: Determines necessary on/off combination of poles in inboard/outboard applications • Percentage offset operation: Uses relative set-point for second pole in dual zone applications | <p>D Occupancy Controlled Dimming</p> <ul style="list-style-type: none"> • Provides dimming output to control 0-10 VDC dimmable ballasts/drivers • Provides a second occupancy time-out period that enables lights to go to a dim setting before turning off • Sinks <20mA; ~40 ballast/drivers • Adjustable max/min dim setting |
| <p>P Photocontrol</p> <ul style="list-style-type: none"> • Auto set-point calibration • On/off mode: Full on/off control of lighting during periods of occupancy with adequate daylight • Inhibit mode: Prevents lights from turning on if adequate daylight is available, but does not turn lights off • 2-pole units operate in inhibit mode only | <p>LT Low Temp/High Humidity</p> <ul style="list-style-type: none"> • Sensor electronics are coated for corrosion resistance • Operates down to -40° F/C (-4° F/-20° C for PDT) | <p>347 347 Voltage</p> <ul style="list-style-type: none"> • Allows sensor to be powered and switch 347 VAC | |

COVERAGE PATTERN

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High Bay 360° Lens

- 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



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Small Motion / Standard Range 360° Lens

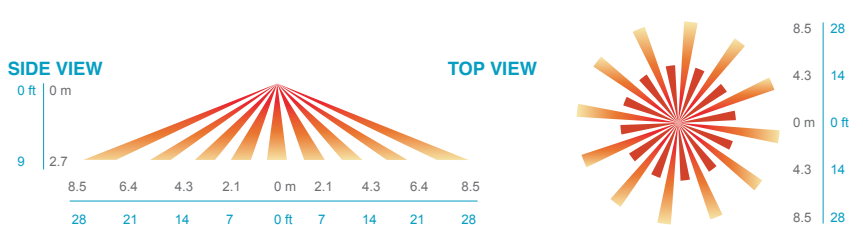
- Best choice for small motion (e.g., hand movements) detection
- Viewing angle of 56° in a 360° conical shaped pattern
- Provides 12 ft (3.66 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 8 to 15 ft (2.44 to 4.57 m) mounting heights provide 10 to 20 ft (3.05 to 6.10 m) radial coverage



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Large Motion / Extended Range 360° Lens

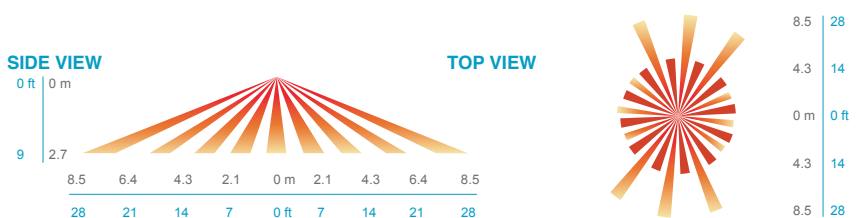
- Best choice for large motion (e.g., walking) detection
- Viewing angle of 67° in a 360° conical shaped pattern
- Provides 28 ft (8.53 m) radial coverage when mounted to standard 9 ft (2.74 m) ceiling
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage



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Bi-Directional Hallway Lens

- Best choice for large motion (e.g., walking) detection
- Viewing angle of 67° for hallway applications
- Provides 28 ft (8.53 m) of 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) hallway coverage



KEY SPECS			
SERIES	COVERAGE PATTERN	DETECTION	POWER TYPE
CM 6	High Bay 360° Lens	PIR	Low 12-24
CM 9	Small Motion/Standard Range 360° 9 Lens	PIR	Low 12-24
CM PDT 9	Small Motion/Standard Range 360° 9 Lens	Dual technology (PDT)	Low 12-24
CM 10	Large Motion/Extended Range 360° 10 Lens	PIR	Low 12-24
CM PDT 10	Large Motion/Extended Range 360° 10 Lens	Dual technology (PDT)	Low 12-24
CM 11	Bi-Directional Hallway Lens	PIR	Low 12-24
CM PDT 11	Bi-Directional Hallway Lens	Dual technology (PDT)	Low 12-24
CMR 6	High Bay 360° Lens	PIR	Line 120/277
CMR 9	Small Motion/Standard Range 360° 9 Lens	PIR	Line 120/277
CMR PDT 9	Small Motion/Standard Range 360° 9 Lens	Dual technology (PDT)	Line 120/277
CMR 10	Large Motion/Extended Range 360° 10 Lens	PIR	Line 120/277
CMR PDT 10	Large Motion/Extended Range 360° 10 Lens	Dual technology (PDT)	Line 120/277
CMR 6 2P	High Bay 360° Lens	PIR	Line 120/277
CMR 9 2P	Small Motion/Standard Range 360° 9 Lens	PIR	Line 120/277
CMR PDT 9 2P	Small Motion/Standard Range 360° 9 Lens	Dual technology (PDT)	Line 120/277
CMR 10 2P	Large Motion/Extended Range 360° 10 Lens	PIR	Line 120/277
CMR PDT 10 2P	Large Motion/Extended Range 360° 10 Lens	Dual technology (PDT)	Line 120/277



LOW VOLTAGE		Specifications subject to change.		Example: CM 9 R P LT	
Series	Relay	Dimming/Photocontrol Choose One Only		Temp/Humidity	
CM 6	(blank) None	(blank)	None	(blank)	Standard
CM 9	R Low Voltage Relay	D	Occupancy Controlled High/Low Dimming	LT	Low Temp/High Humidity
CM PDT 9		P	Photocontrol		
CM 10		ADC	Photocontrol with Dimming		
CM PDT 10					
CM 11					
CM PDT 11					

LINE VOLTAGE		Specifications subject to change.		Example: CMR 9 P 347 LT	
Series	Dimming/Photocontrol Choose One Only		Voltage		Temp/Humidity
CMR 6	(blank)	None	(blank)	120/277 VAC	(blank) Standard
CMR 9	D	Occupancy Controlled High/Low Dimming	347	347 VAC	LT Low Temp/High Humidity
CMR PDT 9	P	Photocontrol			
CMR 10	ADC	Photocontrol with Dimming			
CMR PDT 10					

2-POLE, LINE VOLTAGE		Specifications subject to change.		Example: CMR 9 2P DZ LT	
Series	Dimming/Photocontrol Choose One Only		Voltage		Temp/Humidity
CMR 6 2P	(blank)	None	(blank)	120/277 VAC	(blank) Standard
CMR 9 2P	P	Photocontrol (inhibit only)	347	347 VAC	LT Low Temp/High Humidity
CMR PDT 9 2P	DZ	Dual Zone Photocontrol			
CMR 10 2P					
CMR PDT 10 2P					