

# STANDARD RANGE

## 360° Sensors

### Features [All]

- 30 sec to 20 min time delay
- Push-button programmable
- 100 hr. lamp burn-in timer
- Green LED indicator

### Features [Line voltage]

- Self-contained relay(s)
- No minimum load
- Interchangeable hot and load wires

### Overview

Standard range 360° occupancy sensors offer amazing performance and sensitivity to small motions (e.g. hand movements). 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. For longer range detection of walking type motions, see the section on extended range 360° sensors.

### ENCLOSURES



#### CEILING MOUNT

SIZE 4.55" dia. (11.56 cm)  
1.55" deep (3.94 cm)  
WEIGHT 6 oz  
MOUNTING 3.5" octagon box, or single gang handy box  
COLOR White



#### RECESSED MOUNT

SIZE 4.40" (11.18 cm) square  
WEIGHT 6 oz  
MOUNTING Recessed into a 4" x 4" square junction box  
COLOR White



#### FIXTURE MOUNT BOX

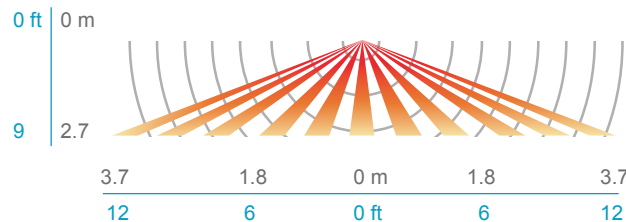
SIZE 3.63" H x 3.63" W x 1.50" D  
(9.22 cm x 9.22 cm x 3.81 cm)  
WEIGHT 6 oz  
MOUNTING .5" knockout  
COLOR White

### COVERAGE PATTERN

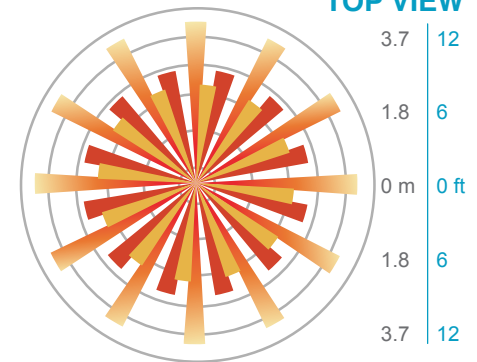
#### Standard Range 360° Lens

- 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
- Microphonics™ detects normal human activity up to 20 ft (6.10 m), but will detect greater distances in spaces with hard floors or very quiet rooms with little or no background noise

#### SIDE VIEW



#### TOP VIEW



### OPTION INFORMATION

#### R Low voltage relay

- Enables sensors to interface with other systems (e.g. BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 amp, 40 volt relay

#### P Photocell

- 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 cannot turn lights off
- 2-pole units operate in inhibit mode only

#### ADC Automatic dimming control photocell

- Allows sensor to control level of 0-10 VDC dimmable ballasts
- Provides a second time-out period that enables the lights to go to a dim setting before off

#### LT Low temp / high humidity

- Sensor is corrosion-resistant to moisture
- Operates down to -40° F/C (-4° F/20° C for PDT)

#### DZ Dual zone photocell

- 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

#### D Occupancy controlled dimming

- Provides dimming output to control 0-10 VDC dimmable ballasts
- Provides a second occupancy time-out period, enabling the lights to go to a dim setting before turning off
- Adjustable max/min dim setting

#### 347 347 Voltage

- Allows sensor to be powered and switch 347 VAC

**Electrical Specs**  
**Operating Voltage**  
 12-24VDC/VAC

**Recommended Power Supply**  
 PP20

**Current Draw**  
 Standard, 4 mA  
 w/ R option, 16 mA

KEY SPECS			
SERIES	ENCLOSURE	DETECTION	POWER TYPE [VDC/VAC]
CM 9	Ceiling mount	PIR	12-24
CM PDT 9	Ceiling mount	Dual technology (PDT)	12-24
RM 9	Recessed mount	PIR	12-24
RM PDT 9	Recessed mount	Dual technology (PDT)	12-24
CMB 9	Fixture mount box	PIR	12-24
CMB PDT 9	Fixture mount box	Dual technology (PDT)	12-24



ORDERING INFORMATION

Example: CM 9 R P LT

Series	Relay	Dimming / photocell <small>choose one only</small>	Temp / humidity
CM 9	(blank) None	(blank) None	(blank) Standard
CM PDT 9	R Low voltage relay	D Occupancy controlled dimming	LT Low temp
RM 9		P Photocell	
RM PDT 9		ADC w/ Dimming photocell	
CMB 9			
CMB PDT 9			

LINE VOLTAGE

Standard Range 360° Sensor : Line Voltage

**Electrical Specs**  
**Load Rating** (1 Phase Only)  
 800 W @ 120 VAC  
 1200 W @ 277 VAC  
 1500 W @ 347 VAC  
**Motor Load** 1/4 HP  
**Frequency** 50/60 Hz

KEY SPECS				
SERIES	ENCLOSURE	DETECTION	POWER TYPE [VDC/VAC]	POLES
CMR 9	Ceiling mount	PIR	120/277	1
CMR PDT 9	Ceiling mount	Dual technology (PDT)	120/277	1
RMR 9	Recessed mount	PIR	120/277	1
RMR PDT 9	Recessed mount	Dual technology (PDT)	120/277	1
CMRB 9	Fixture mount box	PIR	120/277	1
CMRB PDT 9	Fixture mount box	Dual technology (PDT)	120/277	1



ORDERING INFORMATION

Example: CMR 9 P 347 LT

Series	Dimming / photocell <small>choose one only</small>	Voltage	Temp / humidity
CMR 9	(blank) None	(blank) 120/277 VAC	(blank) Standard
CMR PDT 9	D Occupancy controlled dimming	347 347 VAC	LT Low temp
RMR 9	P Photocell		
RMR PDT 9	ADC Photocell w/ dimming		
CMRB 9			
CMRB PDT 9			

2-POLE LINE VOLTAGE

Standard Range 360° Sensor : 2-pole, Line Voltage

**Electrical Specs**  
**Load Rating / Pole**  
 800 W @ 120 VAC  
 1200 W @ 277 VAC  
 1500 W @ 347 VAC  
**Motor Load** 1/4 HP  
**Frequency** 50/60 Hz

KEY SPECS				
SERIES	ENCLOSURE	DETECTION	POWER TYPE [VDC/VDAC]	POLES
CMR 9 2P	Ceiling mount	PIR	120/277	2
CMR PDT 9 2P	Ceiling mount	Dual technology (PDT)	120/277	2
RMR 9 2P	Recessed mount	PIR	120/277	2
RMR PDT 9 2P	Recessed mount	Dual technology (PDT)	120/277	2
CMRB 9 2P	Fixture mount box	PIR	120/277	2
CMRB PDT 9 2P	Fixture mount box	Dual technology (PDT)	120/277	2



ORDERING INFORMATION

Example: CMR 9 2P DZ LT

Series	Photocell <small>choose one only</small>	Voltage	Temp / humidity
CMR 9 2P	(blank) None	(blank) 120/277 VAC	(blank) Standard
CMR PDT 9 2P	P Photocell (inhibit only)	347 347 VAC	LT Low temp
RMR 9 2P	DZ Dual zone photocell		
RMR PDT 9 2P			
CMRB 9 2P			
CMRB PDT 9 2P			