

TYPICAL APPLICATIONS

- Office/Conference Room
- Closet/Changing Room
- Private Bathroom (no stalls)
- Concrete/Drywall Ceilings

FEATURES

- PIR Occupancy Detection
- Self-Contained Relay, no Power Pack needed
- Time Delay: 30 sec. to 20 minutes
- No Minimum Load Requirements
- Push-Button Programmable
- Green LED Activity Indicator
- 100 Hr. Lamp Burn-in Timer Mode

DAYLIGHTING OPTIONS

- On/Off Photocell (-P)
- Auto Dimming Cntl. Photocell (-ADC)

SPECIFICATIONS

- Size: Circular, 4.55" Dia., 1.55" Deep (11.56 cm Dia., 3.94 cm Deep)
- Sensor Weight: 6 Ounces
- Sensor Color: White
- Mounting: Round Fixture Box or Single Gang Handy Box
- Relative Humidity: 20 to 90% non-condensing
- Operating Temp: 14° to 160° F (-10° to 71° C)
- Storage Temp: -14° to 160° F (-26° to 71° C)
- Load Rating (1 Phase Only):
800 W @ 120 VAC
1200 W @ 277 VAC
1500 W @ 347 VAC
- 1/4 HP Motor Load
- Frequency: 50/60 Hz (Timers are 1.2 times for 50 Hz)
- UL, CUL, and Title 24 Compliant
- 5 Year Warranty
- Made in U.S.A.

LOW TEMP/HI HUMIDITY(-LT)

- Conformally coated Circuit Board is corrosion resistant from moisture
- Operates down to -40° F (-40° C)

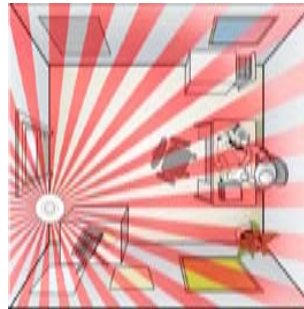
CMR-9 Series w/ Enhanced Daylighting Control Options!



The *CMR-9 Series* incorporates the industry's leading Passive Infrared (PIR) technology into an attractive line powered ceiling mount occupancy sensor that provides amazing sensitivity to small motions and excellent payback. The *CMR-9* is an economical approach to controlling automatic lighting needs in enclosed areas where a wall switch replacement sensor is not applicable. It is also an ideal choice for retrofitting rooms with concrete or inaccessible ceilings, or new construction with drop ceilings. For rooms with obstructions the *CMR-PDT* should be considered.

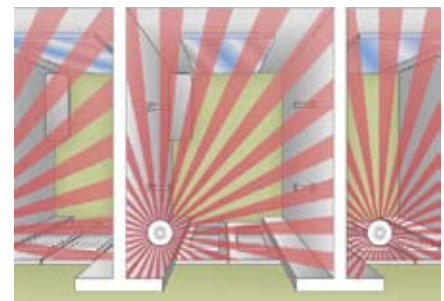
SENSOR OPERATIONS

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a self-contained relay switches the lighting "On". The sensor is line powered and can switch a large range of line voltages. An internal timer, factory set at 10 minutes, keeps the lights "On" during brief periods of no activity. This timer is selectable at 2.5 minute increments from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art design requires no manual field adjustments.



Small Office

- PIR technology effective in an enclosed unobstructed area
- Best choice for concrete ceiling



Closet/Changing Room

- More cost effective than installing door (plunger type) switches
- Eliminates need for toggle switch
- Adds convenience for user

DAYLIGHTING CONTROL OPTIONS

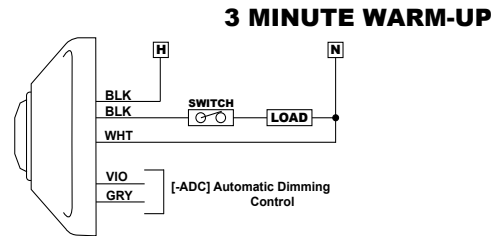
For spaces with abundant natural light from windows or skylights, this series offers an On/Off Photocell (-P) option and an Automatic Dimming Control (-ADC) Photocell option. The -P option is ideal for public areas like vestibules, corridors, or restrooms; while the -ADC option is perfect for classrooms and private offices. As the daylight levels change in the room, both options insure that an adequate light level is maintained according to a programmable set-point value. The -P option provides two modes of operation; one simply inhibits the lights from turning on, while the other has full On/Off control of the lights. The -ADC option allows the sensor to control a dimmable ballast. It also provides a secondary dim time-out that enables the lights to go to a dim setting after one time-out and then turn fully off after a second time-out. For more detailed information on these daylighting control features, see the *CMR-PC-ADC* Technical Data Sheet. **Note:** If both the -P and the -ADC options are selected the "Inhibit" mode of the -P option is not available.

Model Numbering System: CMR-9-[DAYLIGHTING CONTROL]-[VOLTAGE]-[TEMP/HUMIDITY]

MODEL#	DAYLIGHTING CONTROL*	VOLTAGE	TEMP/HUMIDITY
CMR-9	Blank = None -P = On/Off Photocell -ADC = Auto Dimming Cntl. Photocell *for both options use -P-ADC	Blank = 120-277 VAC -3 = 347 VAC	Blank = 14° to 160° F LT = -40° to 160° F

TYPICAL WIRING DIAGRAM (DO NOT WIRE HOT)

The sensor uses Sensor Switch's patented "either/or wiring"; Black to Hot and Black to Load. The White wire connects to neutral. Black wires are replaced with Red wires for 347 VAC. The -ADC option adds two low voltage wires for connection to a 0-10 VDC dimmable ballast.

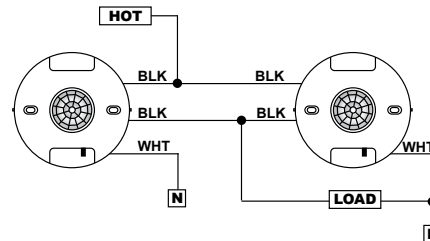


INITIAL POWER UP

When power is applied to the sensor, the relay is designed to be in a latched closed position, and the lights should come on. After a 1-3 minute warm-up period, the sensor becomes functional and begins to "time out". **If the Lights Do Not Immediately Turn On (Initial Installation Only)** the latching relay is in the open position. When the 1-3 minute warm-up is over the sensor will correct itself and close the relay.

SENSORS IN PARALLEL

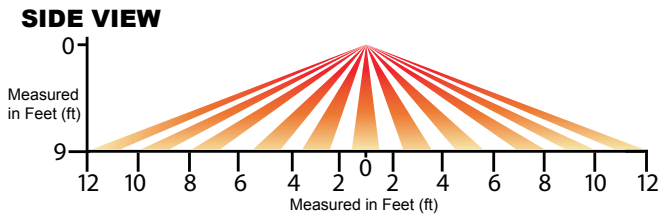
For multiple sensor applications, simply wire sensors in parallel, however the maximum load ratings stay the same. Do not wire sensors with -P or -ADC option in parallel.



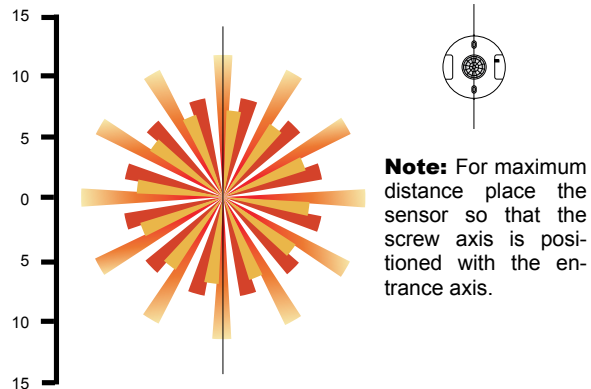
FIELD OF VIEW

The CMR-9's dome lens provides a maximum viewing angle of 56° in a complete 360° conical pattern. It is ideal for occupancy detection in unobstructed areas. Place the sensor along the entrance door wall to prevent it from viewing out into the hallway, while still ensuring the sensor can view the entire room from this position.

Note: Heat producing sources controlled by the sensor must not be in the view pattern of the sensor. Symptom: Sensor cycles or appears to continually stay "On". Solution: Move sensor or mask lens segments that view the source.



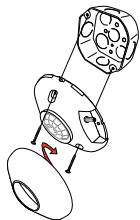
TOP VIEW



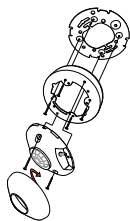
INSTALLATION

The ceiling sensor enclosure accommodates mounting to a single gang "Mud Ring" at a 3.28" spacing, up to a Round Fixture Box spacing of 3.5". Refer to "Field of View" section to determine orientation of box for maximum coverage. Note that most fixture boxes orientate the sensor 45° differently than a single gang handy box or mud ring on a 1900 box.

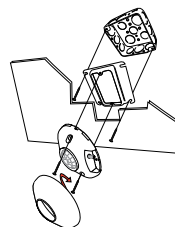
ROUND FIXTURE BOX



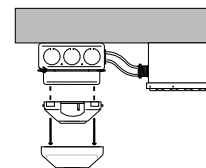
WIREMOLD V5738 FIXTURE BOX



MUD RING WITH 1900 BOX



OFFSET NIPPLE



WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of sixty months. Sensor Switch, Inc., upon prompt notice of such defect will, at its option, provide a Returned Material Authorization number and a replacement product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.



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