sensorswitch

CMR 10

EXTENDED RANGE 360° SENSOR CEILING MOUNT • LINE VOLTAGE • PASSIVE INFRARED (PIR)

SPECIFICATIONS

FEATURES

100% Digital PIR Detection, Excellent RF Immunity 360° Coverage Pattern Self-Contained Relay, No Power Pack Needed No Minimum Load Requirements Interchangeable Hot & Load Wires, Impossible to Wire Backwards Push-Button Programmable Adjustable Time Delays No Field Calibration or Sensitivity Adjustments Required Convenient Test Mode 100 hr Lamp Burn-in Timer Green LED Indicator

LAMPMAXIMIZER® TECHNOLOGY

- Protects Lamp Life while
- Maximizing Energy Savings
- Minimum On Timer (15 min default)
- Occ. Time Delay (10 min defatult)
- LampMaximizer+ Mode -Optimizes Lamp Life & Energy
- Savings (disabled by default)
- Switch Counter (in 1000's)
- Total Lamp On Time (in khrs)

PHYSICAL SPECS

SIZE 4.55" Dia. (11.56 cm) 1.55" Deep (3.94 cm) WEIGHT 6 oz MOUNTING 3.5" Octagon Box Single Gang Handy Box COLOR White

ELECTRICAL SPECS

MAXIMUM LOAD 800 W @ 120 VAC 1200 W @ 277 VAC 1500 W @ 347 VAC MINIMUM LOAD None MOTOR LOAD 1/4 HP FREQUENCY 50/60 Hz DIMMING LOAD Sinks < 20mA; ~40 Ballasts @ .5mA each

ENVIRONMENTAL SPECS

OPERATING TEMP 14° to 160° F (-10° to 71° C) STORAGE TEMP -14° to 160° F (-26° to 71° C) RELATIVE HUMIDITY 20 to 90% non-condensing SILICONE FREE ROHS COMPLIANT

OVERVIEW

The CMR 10 Series incorporates Passive Infrared (PIR) technology into an attractive and economical line powered sensor to provide maximum viewing from the ceiling. When mounted at 9 ft (2.74 m), this sensor views up to 28 ft (8.53 m) in all directions. Its circular coverage pattern is designed for walking motions; making it ideal for T-shaped intersections in corridors, or other areas where wall mounting a sensor is not practical. Low ceiling heights are also best covered with the CMR 10. For example, when mounted at only 7 ft (2.13 m), the height of pick aisles in many distribution centers, the CMR 10 provides a 32 ft (9.75 m) diameter pattern of coverage. In applications where detection of minor motion is also required, the CMR PDT 10 Series Dual Technology sensor is recommended.

SENSOR OPERATION

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 connected lighting load on. The sensor is line powered, switches line voltage, and requires no field calibration or sensitivity adjustments.

LAMPMAXIMIZER[®]

This sensor also contains patent pending LampMaximizer technology that allows users to aggressively target energy savings while still protecting lamp life. A minimum on timer, factory set at 15 minutes, helps preserve lamp life by eliminating all lamp cycles shorter than lamp warranties specify.

A standard occupancy time delay is also present that ensures lights turn off (assuming minimum on timer has elapsed) if no occupancy is detected. This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 20 minutes. These adjustments can be done manually, through the unit's push-button, or automatically every two weeks through an advanced mode, called LampMaximizer+, that determines the optimum time delay in order to maximize both lamp life and energy savings. Additionally, this sensor maintains statistics on total lamp on time and number of cycles.

OPTIONS

OCCUPANCY CONTROLLED DIMMING (D)

- Provides dimming output to control 0-10 VDC dimmable ballasts
- Provides a second occupancy timeout period that enables the lights to go to a dim setting before turning off
- · Adjustable max/min dim setting

PHOTOCELL (P)

- Auto set-point calibration
- Two selectable modes of operation
- On/Off mode: Photocell has full control during periods of occupancy
- Inhibit mode: Photocell can prevent lights from turning on if adequate daylight is available, but can not turn lights off

PHOTOCELL W/ DIMMING (ADC)

- Photocell within sensor maintains total room light level by controlling levels of 0-10 VDC dimmable ballasts
- Photocell also has full on/off control during periods of occupancy
- Provides a second occupancy timeout period that enables the lights to go to a dim setting before turning off

Note: LampMaximizer+ features not available with ADC option

347 VAC (347)

 Allows sensor to be powered from and switch 347 VAC

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor is corrosion resistant to moisture
- Operates down to -40° F/C



TITLE 24 MADE in U.S.A. 5 YEAR WARRANTY

ORDERING INFO CMR 10 [DIMMING/PHOTOCELL] [VOLTAGE] [TEMP/HUMIDITY]

DIMMING / PHOTOCELL CHOOSE ONE ONLY

D = Occupancy Controlled Dimming

Blank = None

VOLTAGE

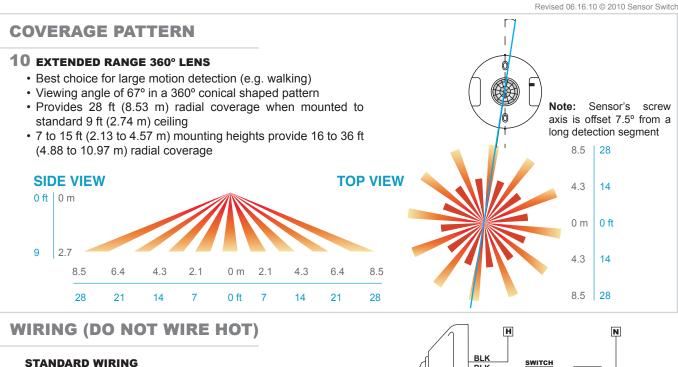
Blank = 120/277 VAC 347 = 347 VAC

TEMP/HUMIDITY

Blank = Standard LT = Low Temp

P = Photocell

ADC = Photocell w/ Dimming



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

347 VAC OPTION (347)

Black wires are replaced w/ Red wires

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.



- Sensor's mounting holes align with 3.5" octagon or single gang handy box (screws not provided)
- Sensor will detect motions crossing segments more effectively than motions parallel to beams
- For optimal detection, position sensor such that segments are crossed upon entrance and unable to view outside the space



A: When walking across beam, detection will occur at approximately 28 feet (8.53

 m).
B: When walking into beam, detection will occur at approximately 24 feet (7.32 m).

PROGRAMMING

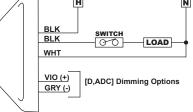
Refer to instruction card IC7.001 for default settings and directions on programming the sensor via the push-button.



WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of 60 months. Sensor Switch, Inc., upon prompt notice of such defect, will, at its option, provide a Returned Material Authorization number and repair or replace returned 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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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.

