

TECHNICAL DATA

TYPICAL APPLICATIONS

- High Mounting (15-45ft)
- Inboard/Outboard Switching
- T-5 or T-8 Fluorescent
- Individual Fixture Control

SENSOR HIGHLIGHTS

- Up to 45 Foot Mounting
- 360° Coverage
- Self-Contained Relay
- No Minimum Load Requirement

FEATURES

- Time Delay: 30 sec. to 20 minutes
 Selectable in 2.5 min increments
- Time Delay Separate for Each Pole
- Green LED Indicator

SPECIFICATIONS

- Size: Circular, 4.55" Dia., 1.36" Deep
- Sensor Weight: 6 Ounces
- Sensor Color: White
- Mounting: Single Gang Handy or Round Fixture Box
- Relative Humidity: 20 to 90% non-condensing
- Operating Temp: 14° to 160° F
- Storage Temp: -14° to 160° F
- Load Rating: Each Pole
- 120 VAC @ 800 W
- 277 VAC @ 1200 W
- 347 VAC @ 1500 W
- 1/4 HP Motor Load
- Frequency: 60 Hz
- UL and CUL Listed
- 5 Year Warranty
- Made in U.S.A.

LOW TEMP/HI HUMIDITY(-LT)

- Conformally Coated PCB
- Operates down to -40° F
- Corrosion resistant from moisture

CMR-6-2P Series
Programmable Edition!



With two separate relays, the *CMR-6-2P* can control A/B switching for T-5 & T-8 Fluorescent fixtures. No power pack required, this sensor connects directly to 120 thru 277, or 347 Volt loads. It's unique coverage pattern overlaps that of most T-5 or T-8 Warehouse fixtures. Sensor may be wired before or after the local toggle switches, simplifying the installation. For areas with abundant natural light, each pole can be inhibited based on sunshine by using the *CMR-6-2P-P*. In cold damp environments, use the *CMR-6-2P-LT*.

SENSOR OPERATIONS

The *CMR-6-2P* detects changes in the Infrared energy given off by occupants as they move within the sensor's field-of-view. An internal timer, factory set at 10 minutes, keeps the lights "On" during brief periods of no activity. This state-of-the-art design allows the sensor to adapt to its environment, eliminating the need for manual field adjustments.

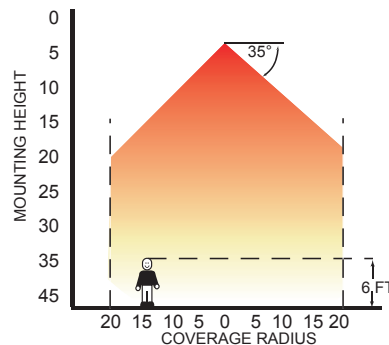
RELATED APPLICATIONS

For multiple fixture control, multiple low voltage CM-6 and/or HM-10 High bay aisle sensors with Power Packs are recommended. For line voltage full aisleway control of HID Bi-level, the HMR-10 sensor is recommended.

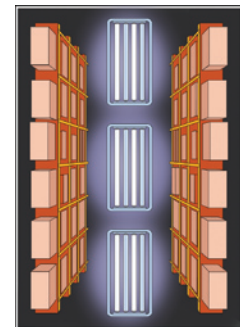
TYPICAL APPLICATION

The *CMR-6-2P* is mounted to or adjacent to each light fixture. As the occupant approaches from 15 to 20 feet underneath each light fixture, the *CMR-6* turns "On" that fixture and keeps it "On" for the time delay period. Lighting in aisle ways are then staged up and down as needed maximizing energy savings.

TYPICAL MOUNTING



CMR-6-2P IN WAREHOUSE



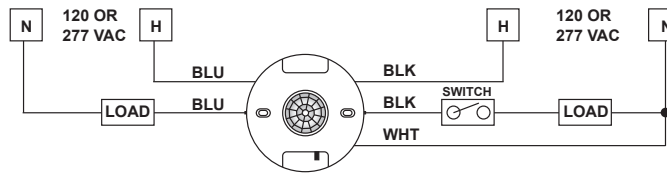
Note: Heat producing sources controlled by the sensor must not be in the view pattern of the sensor. Symptom: Sensor cycles or appears to continually stay "On". Solution: Move sensor or mask lens segments that view the source.

Part Numbering System: CMR-6-2P-[VOLTAGE]-[TEMP/HUMIDITY]

MODEL#	VOLTAGE	LO TEMP/HI HUMIDITY
CMR-6-2P	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 may be wired before or after local toggle switches. The Black wires connect to the first feed, and load respectively, and the Blue wires connect to the second. If only one feed, connect one of the Black and one of the Blue wires to the feed, and the respective Black and Blue wires to the loads. **Note:** Black wires are replaced with Red wires for 347 VAC (One Phase Only).



3 MINUTE WARM-UP

INITIAL POWER UP

When power is first applied to the sensor, the lights should come "On". After 1-3 minutes the sensor stabilizes and begins to time out. **Lights Stay Off:** If the lights do not come "On", wait a minute and sensor will correct itself.

FIELD OF VIEW

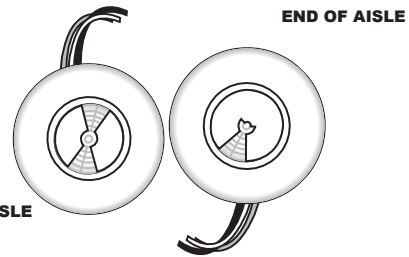
The CMR-6-2P lens views in 5 separate 360° coneshaped patterns. The outermost (fifth) cone viewing at a 54° angle is only effective up to a 12-15 foot mounting height and is therefore not typically considered in High Bay applications. The fourth cone views at a 45° angle and is effective up to 20 feet. The inner three cones viewing at a maximum 30° angle continually maintain their effectiveness. The geometric effect is that the CMR-6-2P maintains a 15 to 20 foot radius up to a 35 foot mounting height. From 35 to 45 feet, the CMR-6-2P will generally only detect major motions such as a forklift truck. However, in colder environments, the CMR-6-2P may maintain very sensitive detection in all cones up to greater heights.

MASKING KIT

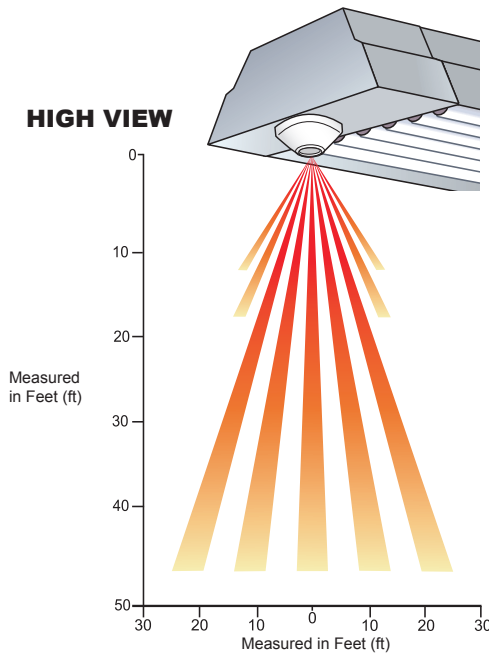
The sensor views a 360° circular pattern. The kit provided may be used to mask off half of the viewing for the end of the aisle, or trim the side viewing to create a rectangular pattern for the center of the aisle. Shown below is the masking for the center of the aisle and the end of the aisle.

TYPICAL MOUNTING TO FLUORESCENT FIXTURE

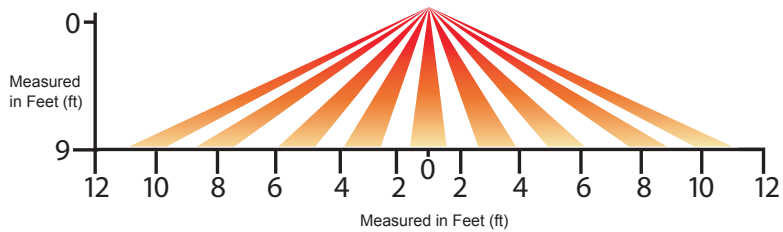
The CMR-6-2P surface mounts to either a junction box or mounting plate at the end of the fixture. The spacing for the mounting screws are the same for the regular wiring device or the round fixture box. As shown, the sensor views in the same linear plane as the lamps.



HIGH VIEW



LOW VIEW



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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