



HIGH BAY 360° SENSOR CEILING MOUNT • LOW VOLTAGE • PASSIVE INFRARED (PIR)

SPECIFICATIONS

FEATURES

- PIR Occupancy Detection
- Up to 45 ft Mounting
- 360° Coverage
- Push-Button Programmable
- Adjustable Time Delay
- 100 Hr Lamp Burn-in Timer
- Green LED Indicator

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

- OPERATING VOLTAGE
- 12-24 VAC/VDC
- CURRENT DRAW
- Standard, 4 mA
- w/ R option, 16 mA
- DIMMING LOAD
- Sinks / Sources < 20mA;
- ~40 Ballasts @ .5mA each
- RECOMMENDED POWER PACK
- PP20 or PP20 SH

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

OTHER

- UL and CUL Listed
- Title 24 Compliant
- 5 Year Warranty
- Made in the U.S.A.

Designed for mounting heights of up to 45 ft (13.72 m), the **CM 6** High Bay 360° sensor provides Passive Infrared (PIR) occupancy detection over a 15-20 ft (4.57- 6.10 m) radial coverage pattern that overlaps the areas lit by a typical high bay fixture. Applications include warehouses, racquetball courts, and gymnasiums. Multiple fixture control is best handled by using multiple **CM 6** sensors together as needed. When used with standard power packs, these sensors are ideal for on/off control of T5/T8 fluorescent lighting. However, HID bi-level fixtures can also be controlled when the **CM 6** is partnered with a **PP20 SH** power pack with the start-to-high feature. For lower mounting height applications, **CM 9** or **CM 10** Series sensors are 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 DC output goes high and can drive up to 200 mA of connected load. The sensor is powered with 12-24 VAC/VDC and typically operates with a **PP20** or **MP20** Power Pack, enabling complete 20 Amp circuits to be controlled. An internal timer, factory set at 15 minutes, keeps the lights on during brief periods of inactivity. This timer is push-button programmable from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art design requires no field calibration or sensitivity adjustments.

OPTIONS

LOW VOLTAGE RELAY (R)

- Enables sensors to interface with other systems (e.g., BMS, lighting panels)
- Provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay
- Only one relay needed per zone
- Changes state when all connected sensors register unoccupied
- Relay requires sensor power to function

OCCUPANCY CONTROLLED DIMMING (D)

- Provides dimming outputs to control 0-10 VDC dimmable ballasts
- Provides a second occupancy time-out 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 cannot turn lights off

LOW TEMP/HIGH HUMIDITY (LT)

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

ORDERING INFO CM 6 [RELAY] [DIMMING] [PHOTOCELL] [TEMP/HUMIDITY]

RELAY

- Blank = None
- R = Low Voltage Relay

DIMMING

- Blank = None
- D = Occupancy Controlled Dimming

PHOTOCELL

- Blank = None
- P = Photocell

TEMP/HUMIDITY

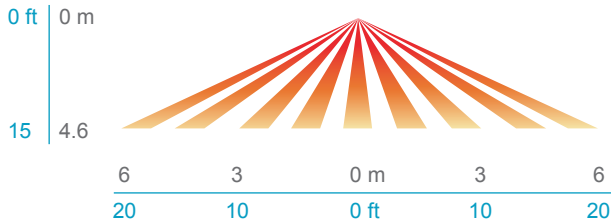
- Blank = Standard
- LT = Low Temp

COVERAGE PATTERN

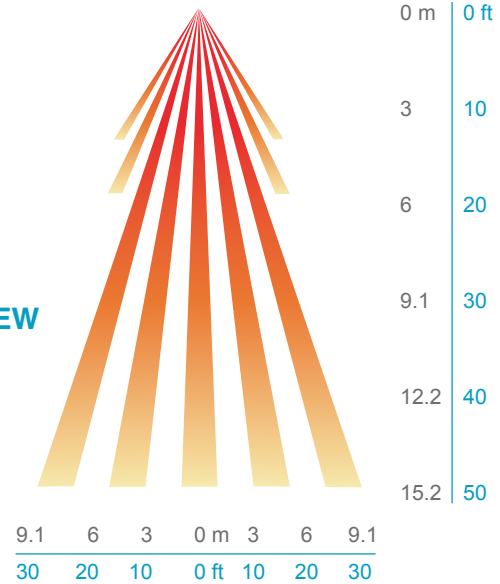
6 HIGH BAY 360° LENS

- 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

LOW VIEW



HIGH VIEW



WIRING (DO NOT WIRE HOT)

STANDARD WIRING

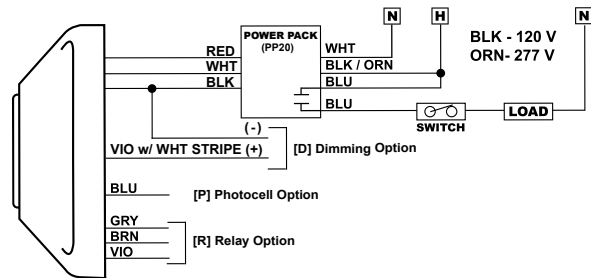
- RED** - Power Input (12-24 VAC/VDC)
- BLACK** - Common
- WHITE** - Output (high VDC for occupancy)

RELAY OPTION (R)

- GRAY / BROWN** - Connected during occupied state
 - VIOLET / BROWN** - Connected during unoccupied state
- Note:** Relay is energized during unoccupied state

DIMMING OPTION (D)

- VIOLET w/ WHITE STRIPE** - Connect to Violet control wire from 0-10 VDC dimmable ballast
- GRAY from Ballast** - Connect to sensor Black wire

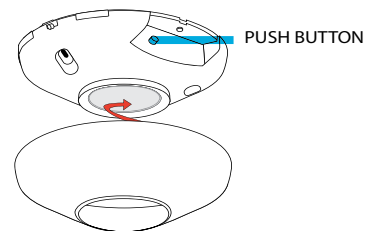
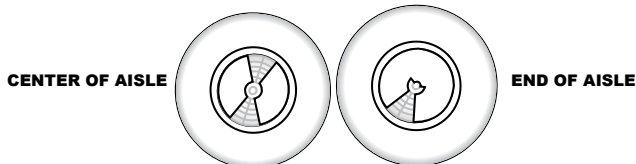


PHOTOCELL OPTION (P)

- BLUE** - Use in place of White output wire. Photocell output is high VDC with occupancy & low light. For multi-level control, use two power packs and connect White to primary load and Blue to daylight load.

INSTALLATION

- Sensor's mounting holes align with a standard 3.5" octagon box or a single gang handy box (screws not provided).
- A label kit is included to mask off half of the sensor's coverage pattern for end of aisle, or trim the side viewing to create a rectangular pattern for center of aisle.



PROGRAMMING

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

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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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