CMRB 9

STANDARD RANGE 360º SENSOR
FIXTURE MOUNT BOX • LINE VOLTAGE • PASSIVE INFRARED (PIR)

SPECIFICATIONS

FEATURES
- PIR Occupancy Detection
- 360º Coverage
- Self-Contained Relay Switches
  - Line Voltage Load
- No Minimum Load Requirements
- Push-Button Programmable
- Adjustable Time Delay
- 100 Hr Lamp Burn-in Timer
- Green LED Indicator

PHYSICAL SPECS
- SIZE 3.63"H x 3.63" W x 1.5" D (9.22 cm x 9.22 cm x 3.81 cm)
- WEIGHT 6 oz
- MOUNTING 1/2" knockout
- 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 / Sources < 20mA; ~40 Ballasts @ .5mA each

ENVIRONMENTAL SPECS
- OPERATING TEMP
  - 14º to 160º F (-10º to 71º C)
- STORAGE TEMP
  - -14º to 160º F (-26º to 71º 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.

The **CMRB 9** Series Standard Range occupancy sensor mounts directly to the end of a fluorescent fixture and utilizes the industry's leading Passive Infrared (PIR) technology to provide amazing sensitivity to small motions and excellent payback. The sensor is line powered and can switch loads directly without the need for a power pack. A **CMRB 9** is typically installed on each fixture when used in long corridors with concrete ceilings and pendant or surface fixtures spaced 10-20 ft (3.05-6.10 m) apart. This approach maximizes energy savings and may be more cost effective than running low voltage wiring. When mounting above 15 ft (4.57 m) the **CMRB 6** Series is a better option than the **CMRB 9**; and when mounting below 8 ft (2.44 m) or for greater radial coverage the CMRB-10 Series should be alternatively considered. Additionally, for areas with obstructions, the **CMRB PDT 9** should 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 and can switch a range of line voltages. An internal timer, factory set at 10 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

OCCUPANCY CONTROLLED DIMMING (D)
- Provides dimming output 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

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 time-out period that enables the lights to go to a dim setting before turning off

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 -40º F/C

ORDERING INFO

CMRB 9 [DIMMING/PHOTOCELL] [VOLTAGE] [TEMP/HUMIDITY]

DIMMING / PHOTOCELL *CHOOSE ONE ONLY*

Blank = None
D = Occupancy Controlled Dimming
P = Photocell
ADC = Photocell w/ Dimming

VOLTAGE

Blank = 120/277 VAC
347 = 347 VAC

TEMP/HUMIDITY

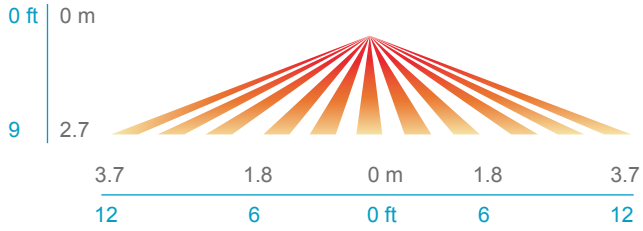
Blank = Standard
LT = Low Temp

COVERAGE PATTERN

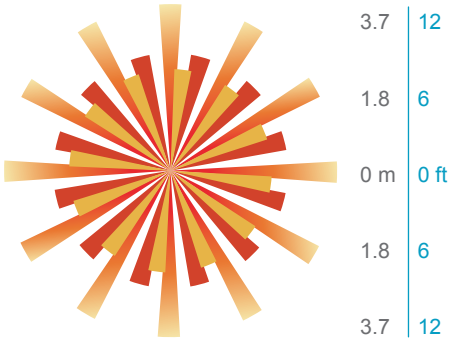
9 STANDARD RANGE 360° LENS

- 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

SIDE VIEW



TOP VIEW

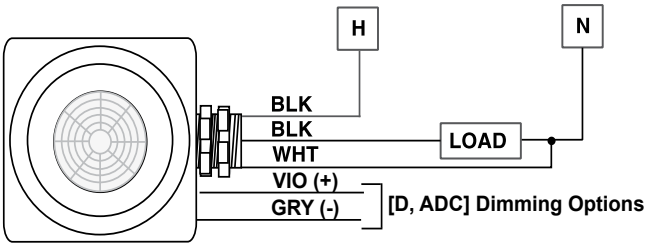


WIRING (DO NOT WIRE HOT)

STANDARD WIRING

BLACK* - Line Input
BLACK* - Load Output
WHITE - Neutral

*BLACK wires can be reversed



347 VAC OPTION (347)

Black wires are replaced w/ Red wires

DIMMING OPTIONS (D, ADC)

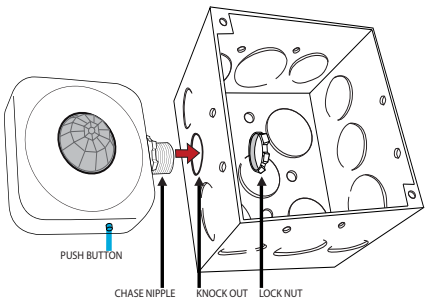
VIOLET - Connect to Violet control wire from 0-10 VDC dimmable ballast
GRAY - Connect to Gray common wire from ballast

INITIAL POWER UP (3 MINUTE WARM-UP)

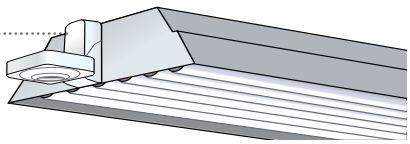
The sensor's relay is shipped in a latched closed position so the lights will come on upon initial power-up. After a 1-3 minute warm-up period, the sensor will begin to time out. If the lights do not immediately turn on (initial installation only) the latching relay opened during shipment and will close after warm-up period is over.

INSTALLATION

- The Fixture Mount Box enclosure has an extended chase nipple that is used to mount the sensor through a ½" knockout hole to a fixture or junction box.
- Sensor will detect motions crossing segments more effectively than motions parallel to beams.
- If the sensor's field-of-view is partially blocked by the fixture housing, the FB-1 Fixture Bracket (not included) can be used to lower the sensor down to a level where its view is not impaired.



FB-1 .....



PROGRAMMING

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

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