



HIGH BAY 360° SENSOR FIXTURE MOUNT BOX • 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
- Compatible w/ Electronic & Magnetic Ballasts, CFLs, LED, & Incandescents
- Interchangeable Hot & Load Wires, Impossible to Wire Backwards
- Push-Button Programmable
- Non-Volatile Settings Memory
- 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 default)
- LampMaximizer+ Mode - Optimizes Lamp Life & Energy Savings (disabled by default)
- Switch Counter (in 1000's)
- Total Lamp On Time (in hrs)

PHYSICAL SPECS

SIZE 3.63" H x 3.63" W x 1.50" 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 < 20mA;

~40 Ballasts @ .5mA each

ENVIRONMENTAL SPECS

OPERATING TEMP

14° to 160° F (-10° to 71° C)

RELATIVE HUMIDITY

20 to 90% non-condensing

SILICONE FREE

ROHS COMPLIANT

OVERVIEW

Designed for mounting heights of up to 45 ft (13.72 m), the **CMRB 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. This line voltage sensor switches loads directly without the need for a power pack. The **CMRB 6** sensor mounts directly to the end of a lighting fixture through an extended 1/2 inch chase nipple, and is ideal for individual on/off control of T5/T8 fluorescent lighting. For multiple fixture control, multiple low voltage **CMB 6**, **CMB 50**, and/or **HMB 10** Series High Bay sensors with power packs are recommended. For lower mounting height applications, **CMRB 9** or **CMRB 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 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 manufacturers' recommendations.

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.



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

OPTIONS

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)

- Photocell views down through sensor lens
- 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

347 VAC (347)

- Allows sensor to be powered from and switch 347 VAC

LOW TEMP/HIGH HUMIDITY (LT)

- Sensor electronics are coated for corrosion resistance
- Operates down to -40° F/C
- Required for cooler/freezer applications
- Analog PIR used with LT units
- Units with both P and LT options are non ROHS compliant

CORDED LEADS (CRD36)

- Leads together inside 36" white UL-SEOOO / CSA-STOOW rated cord
- Available with 3 or 5 conductors (depends on sensor model)

ORDERING INFO CMRB 6 [DIMMING] [PHOTOCELL] [VOLTAGE] [TEMP/HUMIDITY] [WIRE]

DIMMING

Blank = None

D = Occupancy
Controlled
Dimming

PHOTOCELL

Blank = None

P = Photocell

VOLTAGE

Blank = 120/277 VAC

347 = 347 VAC

TEMP/HUMIDITY

Blank = Standard

LT = Low Temp

WIRE

Blank = Standard

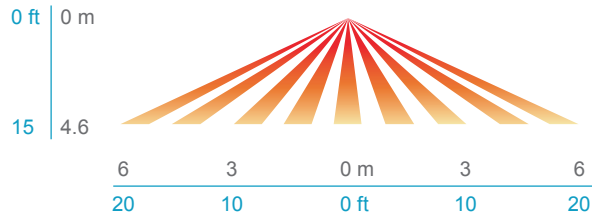
24L = 24" Leads
36L = 36" Leads
CRD36 = 36" Cord

COVERAGE PATTERN

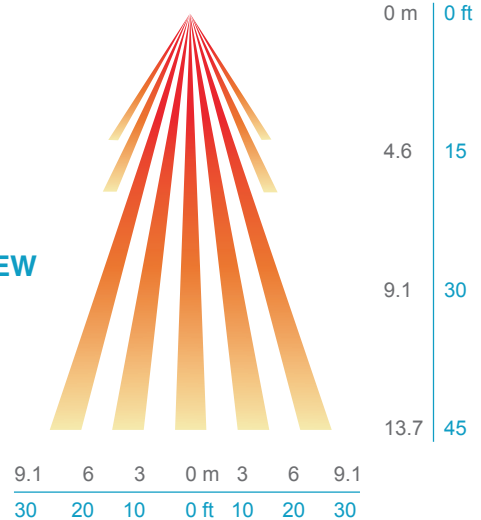
6 HIGH BAY 360° LENS

- 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

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

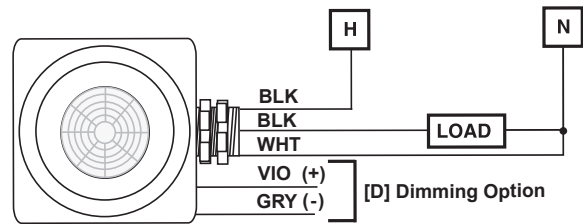
347 VAC OPTION (347)

Black wires are replaced w/ Red wires

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 closed.



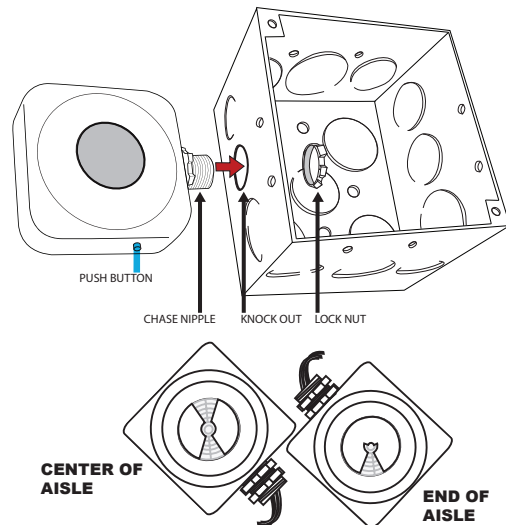
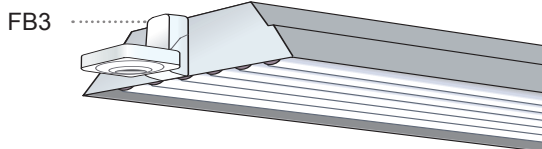
DIMMING OPTION (D)

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

GRAY - Connect to Gray common wire from ballast

INSTALLATION

- Sensor mounts through a 1/2" knockout hole to a fixture or junction box.
- 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.
- If the sensor's field-of-view is partially blocked by the fixture housing, the FB3 Fixture Bracket (not included) can be used to lower the sensor down to a level where its view is not impaired.



PROGRAMMING

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

sensorswitch

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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.

TS-CMRB-007A