**CMRB 6**

**High Bay 360° Sensor**

**Fixture Mount Box • Line Voltage • Passive Infrared (PIR)**

**Specifications**

**Features**
- PIR Occupancy Detection
- Up to 45 ft (13.72 m) Mounting
- 360° 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 1.50" D
- 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.

**Options**

**Start-to-High Timer (SH)**
- Upon power up sensor holds lights on and high for 20 min

**Occupancy Controlled Dimming (D)**
- Provides dimming outputs 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)**
- Ideal for high bay applications with skylights
- Photocell looks out through rear of sensor enclosure
- 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

**Down Looking Photocell (PD)**
- Ideal for high bay applications with daylight entering space from side windows or bay doors
- 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 is corrosion resistant to moisture
- Operates down to -40º F/C

**Ordering Info**

<table>
<thead>
<tr>
<th>Start-to-High</th>
<th>Dimming</th>
<th>Photocell</th>
<th>Voltage</th>
<th>Temp/Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank = No STH</td>
<td>Blank= None</td>
<td>Blank= None</td>
<td>Blank = 120/277 VAC</td>
<td>Blank = Standard</td>
</tr>
<tr>
<td>SH = w/STH</td>
<td>D = Occupancy Controlled Dimming</td>
<td>P= Up Looking Photocell</td>
<td>347 = 347 VAC</td>
<td>LT = Low Temp</td>
</tr>
<tr>
<td></td>
<td>PD= Down Looking Photocell</td>
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</tbody>
</table>
**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

**347 VAC OPTION (347)**
Black wires are replaced w/ Red wires

**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.

**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 FB-1 Fixture Bracket (not included) can be used to lower the sensor down to a level where its view is not impaired.

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