

**OVERVIEW**

The **CMRB 9** Series Standard Range occupancy sensor mounts directly to the end of a luminaire 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** is recommended.

**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
- Adjustable Time Delays
- No Field Calibration or Sensitivity Adjustments Required
- Convenient Test Mode
- 100 hr Lamp Burn-in Timer

**SPECIFICATIONS**

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  
 Maximum Load(per pole): 800W @ 120 VAC, 1200W @ 277 VAC, 1500W @ 347 VAC  
 Motor Load: 1/4 HP  
 Frequency: 50/60Hz  
 Dimming Load: Sinks <20 mA; ~40 Ballasts @ .5 mA each  
 ROHS compliant



*Sensor Switch™*

**CMRB 9**  
*Standard Range 360° Sensor*



**Warranty**

Five-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.  
 Specifications subject to change without notice.



ORDERING INFORMATION

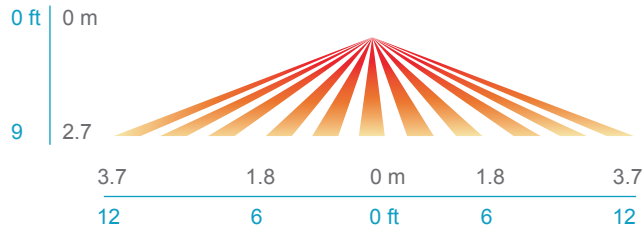
CMRB 9		Example: CMRB 9 ADC 347	
Series	Dimming/ Photocell	Voltage	Temp/Humidity
CMRB 9 Standard Range 360° Sensor	[blank] None D Occupancy Controlled Dimming P Photocell ADC Photocell w/ Dimming	[blank] 120/277 VAC 347 347 VAC	[blank] Standard LT Low Temp/ High Humidity

## COVERAGE PATTERN

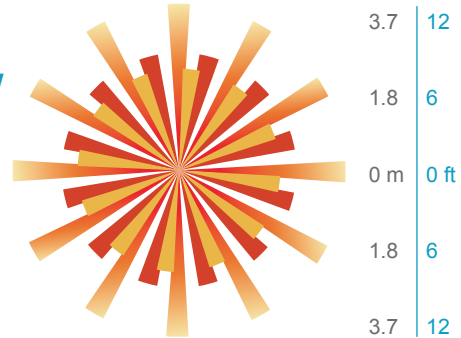
### 9 STANDARD RANGE 360° LENS

- 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

#### 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

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 to on.

