

OVERVIEW

The CMB 9 Series occupancy sensor offers amazing performance and sensitivity to small motions for a standard Passive Infrared (PIR) sensor. The CMB 9 is designed to be mounted to a junction box or fixture through a 1/2" knockout. The CMB 9 sensor can cover entire private offices or smaller rooms by itself, however it is also the ideal lead sensor for odd shaped rooms. For example a CMB 9 in a restroom vestibule can communicate with a CMB PDT 9 Dual Technology sensor in a main stall area. Another application is a CMB 9 controlling an entrance hall to a classroom and communicating with a WV PDT 16 controlling the main room. In both cases the lights would be activated on by the CMB 9. For mounting above 15 ft (4.57 m), the CMB 6 Series sensor is recommended.

FEATURES

- 100% Digital PIR Detection, Excellent RF Immunity
- 360° Coverage Pattern
- Push-Button Programmable
- User 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 (9.22cm x 9.22cm x 3.81cm)

Weight: 6 oz

Mounting: 1/2" knockout

Color: White

Maximum Load (per pole): 12-24 VAC/VDC

Dimming Load: Sinks <20 mA; ~40 Ballasts @ .5 mA each

ROHS compliant

Warranty

Five-year limited warranty. Complete warranty terms located at:

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.

AcuityControls™

Sensor Switch™

CMB 9
Standard Range 360° Sensor



ORDERING INFORMATION

| CMB 9 | | | | | | Example: CMB 9 ADC LT | |
|----------------------------|--------------------------------|---|--|---|--|------------------------|--|
| CMB 9 | | | | | | | |
| Series | Relay | Dimming/Photocell | | Visible Light Programming | | Temp / Humidity | |
| CMB 9 Fixture Mount Box | [blank] None | [blank] None | | [blank] None | | [blank] Standard | |
| | R Low Voltage Relay | D Occupancy Controlled Dimming | | VLP Visible Light Programming ¹ | | LT Low Temp | |
| | | P Photocell | | | | | |
| | | ADC Photocell w/ Dimming | | | | | |

Notes

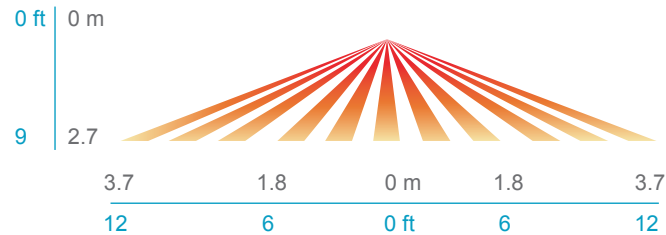
1. Must specify P or ADC if VLP is ordered and must be within 5ft of sensor to program

COVERAGE PATTERN

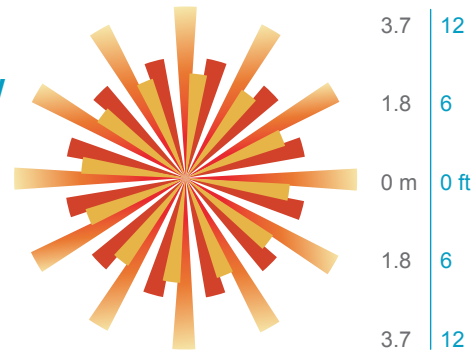
9 Standard Range 360° Lens

- 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

RED - Power Input (12-24 VAC/VDC)

BLACK - Common

WHITE - Occupancy State (high VDC for occupied)

PHOTOCELL / DIMMING OPTIONS (D, P, ADC)

BLUE - Direct output to power pack for providing photocell control and/or secondary dim time out. Output is high VDC with occupancy & low light. Output also held high during secondary dim time out. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.

VIOLET w/ WHITE STRIPE - Connect to 0-10 VDC control wire (typically Violet) from 0-10 VDC dimmable ballast

GRAY from Ballast - Connect to sensor Black wire

RELAY OPTION (R)

GRAY / BROWN - Connected during occupied state

VIOLET / BROWN - Connected during unoccupied state

Note: Relay is energized during unoccupied state

