

OVERVIEW

The **CMR(B)-ADC** Series of Automatic Dimming Control sensors provide continuous control of dimmable ballasts for daylight harvesting applications. Ideal for public spaces with windows like vestibules, corridors, or bathrooms; the **CMR(B)-ADC** works by monitoring daylight conditions in a room, then controlling a 0-10 VDC dimmable ballast so as to insure that adequate lighting levels are maintained. The **CMR(B)-ADC** sensors are line powered and therefore do not require a Power Pack. The **CMR** version sensors are ceiling mounted, while the **CMRB** versions are specifically designed to mount on the end of a linear fluorescent fixture. To add full On/Off switching to the dimming control provided by the **CMR(B)-ADC**, see the Technical Data Sheet on the **CMR(B)-PC-ADC** sensor.

FEATURES

- Line Powered, no Power Pack needed
- Digital Set-Point Control
- Programmable via simple Push-button commands
- Dimming sinks up to 20 mA
- Green LED Activity Indicator
- 100 Hr Lamp Burn-in Timer Mode

SPECIFICATIONS

Sensor dimensions: **CMRB**: 3 5/8" x 3 5/8" x 1 1/4" (9.2 cm x 9.2 cm x 3.175 cm)
CMR: 4.55" Dia., 1.55" Deep (11.56 cm Dia., 3.94 cm Deep)
 Weight: 5 oz
CMRB Mounting: 1/2" knockout
CMR Mounting: Ceiling Tile Surface, Round Fixture or Junction Box
 Color: White
 Maximum Load(per pole): 12-24 VAC/VDC

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

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



*CMR ADC
 CMRB ADC
 Automatic Dimming Control
 Photo Sensor*



ORDERING INFORMATION

CMR(B) ADC		Example: CMR ADC LT	
Series		Voltage	Temp/Humidity
CMR ADC	Automatic Dimming Control Sensor - Ceiling Mount, Line Voltage	[blank] 120-277 VAC	[blank] 14° to 160°F
CMRB ADC	Automatic Dimming Control Photocell Sensor - Fixture Mount, Line Voltage	347 347 VAC	LT -40° to 160°F

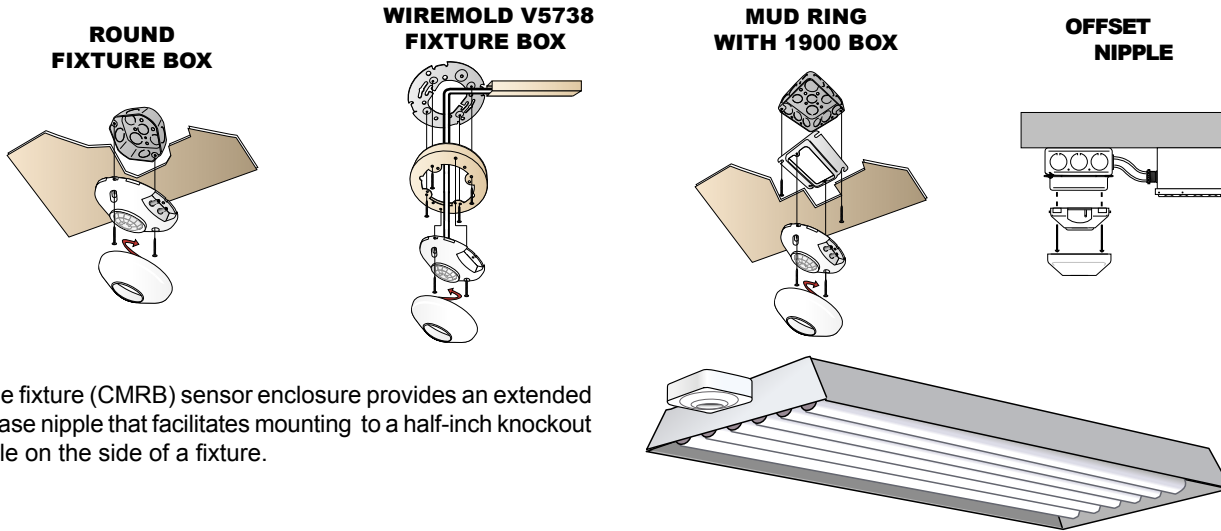
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DIGITAL SET-POINT CONTROL

Each sensor contains a microcontroller that enables the user to engage the Automatic Set-Point Programming mode or to manually set / adjust the set-point. The manual process involves calculating and inputting the exact foot-candle value of the desired set-point into the sensor. It is important to note that the set-point is the light level required at the face of the sensor and that this value will be much different than the level required at a work surface. Typically, light levels at the ceiling are 3 to 5 times less than the work surface. For example, if 50 fc is desired at the work surface, the sensor should be set at 10 fc. For best results, measure the levels at both locations using a foot-candle meter before programming the set-point.

INSTALLATION

The ceiling (CMR) sensor enclosure accommodates mounting to a variety of junction boxes ranging in size from a single gang "Mud Ring" at a 3.28" spacing, up to a Round Fixture Box spacing of 3.5".



The fixture (CMRB) sensor enclosure provides an extended chase nipple that facilitates mounting to a half-inch knockout hole on the side of a fixture.

TYPICAL WIRING DIAGRAM (DO NOT WIRE HOT)

The *CMR(B)-ADC* sensor has one Black wire for connection to Hot (120 or 277 VAC) and a White wire for connection to neutral. The Black wire is replaced with a Red wire for 347 VAC. A Violet and Pink wire are provided for the low voltage connection to the ballast.

