

OVERVIEW

The CMR(B)-ADC Series combines the CMR(B)-PC On/Off Photocell sensor with the CMR(B)-ADC Automatic Dimming Control sensor to provide the industry's most intelligent control of lighting for daylight harvesting applications. Ideal for public spaces with windows like vestibules, corridors, or bathrooms; the sensors work by monitoring daylight conditions in a room, then controlling the lighting so as to insure that adequate lighting levels are maintained. The CMR(B)-PC-ADC Series sensors are line powered and can switch loads directly without the need for 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.

FEATURES

- Self-Contained Relay, no Power Pack needed
- Digitally Programmable via simple push-button commands
- Dimming sinks up to 20 mA
- No minimum Load Requirements
- 100 Hour Lamp Burn-in Timer Mode

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



CMR PC ADC
CMRB PC ADC



ORDERING INFORMATION

CMR PC ADC/CMRB PC ADC				Example: CMRB PC ADC LT	
Series		Voltage		Temp/Humidity	
CMR PC ADC	On/Off Photocell Sensor Ceiling Mount, Line Voltage	[blank]	120/277 VAC	[blank]	14° to 160°F
CMRB PC ADC	On/Off Photocell Sensor Fixture Mount, Line Voltage	-3	347 VAC	LT	-40° to 160°F

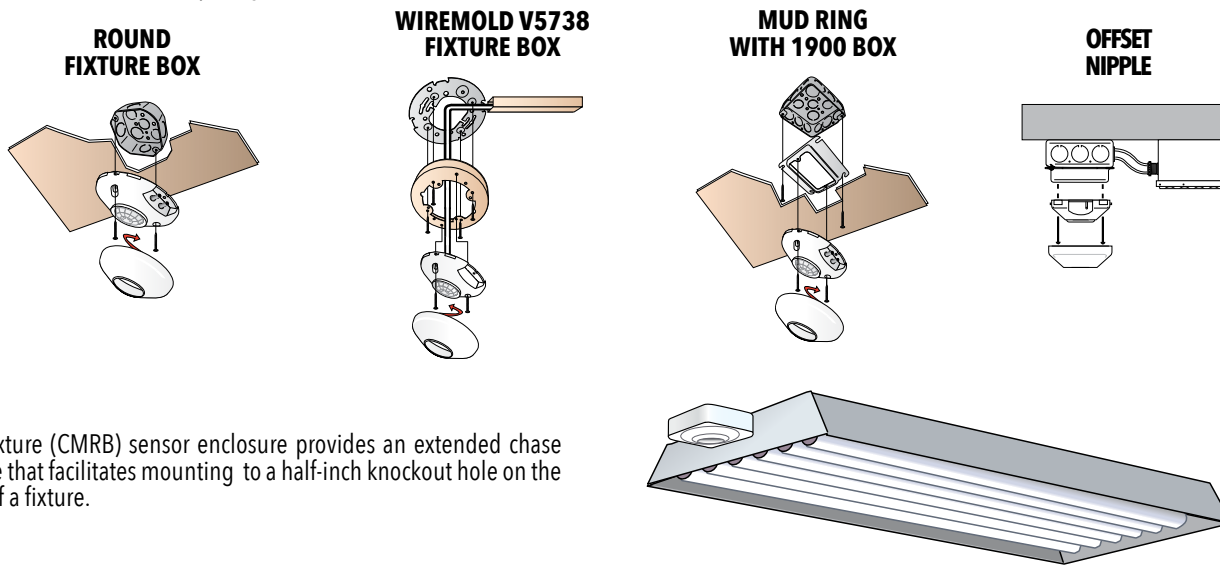
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DIGITAL SET-POINT CONTROL

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. To easily adjust the set-point after it has been initially programmed (via either the Automatic or Manual process) the CMR(B)-PC-ADC has an Incremental control feature that steps the brightness setting (voltage) up or down 10% (1 VDC) and adjusts the set-point accordingly.

INSTALLATION

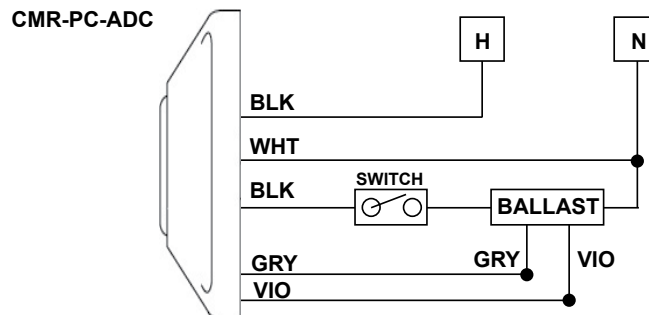
The ceiling (CMR) sensor enclosure accommodates mounting to a variety of junction boxes ranging in size from a single gang "Mud Ring" at a 3.28" spacing, up to a Round Fixture Box spacing of 3.5".



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.

WIRING (DO NOT WIRE HOT)

The sensor uses Sensor Switch's patented "either/or wiring"; Black to Hot and Black to Load. The White wire connects to neutral. Black wires are replaced with Red wires for 347 VAC. A Violet and Gray wire are present for a low voltage connection to the 0-10 VDC dimmable ballast.



Note: Once installed, the sensor may take a few minutes to become active. Additionally, there is a 45 second delay before switching from "Off" to "On" (this delay is 55 seconds when connected to 50 Hz.).

SPECIFICATIONS

Electrical

Input Ratings 120/277V, 80 mA, 50/60Hz
347V, 80 mA, 50/60Hz
480V, 80 mA, 50/60Hz

Output Ratings 120V, 800W/6.67A - Tungsten, Ballast
120V, 5A- General Purpose
277V, 1200VA/4.3A - Ballast
347V, 4.3A - General Purpose
480V, 5A - General Purpose
125V, 1/4HP - Motor

Relay Type Latching

Low Voltage Output Ratings 0-10VDC, Sinks <20mA

Class Rating 0-10V Dimming can be wired Class 1 or 2; Do not include if only Class 1

Standards/ Ratings Energy Management Equipment, UL916 (E167435)

Mechanical

Dimensions 4.55"W x 1.55"D (116mm x 40mm)

Mounting Single-Gang or Octagonal Box, Surface Mount

Color White

Finish Matte

Connection Type Line Voltage Leads

Environmental

Relative Humidity Up to 90%, Non-Condensing

Environment Indoor

Standards/ Ratings RoHS