

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] 120/230/277 VAC	[blank] 14° to 160°F
CMRB PC ADC	On/Off Photocell Sensor Fixture Mount, Line Voltage	347 347 VAC	LT -40° to 160°F

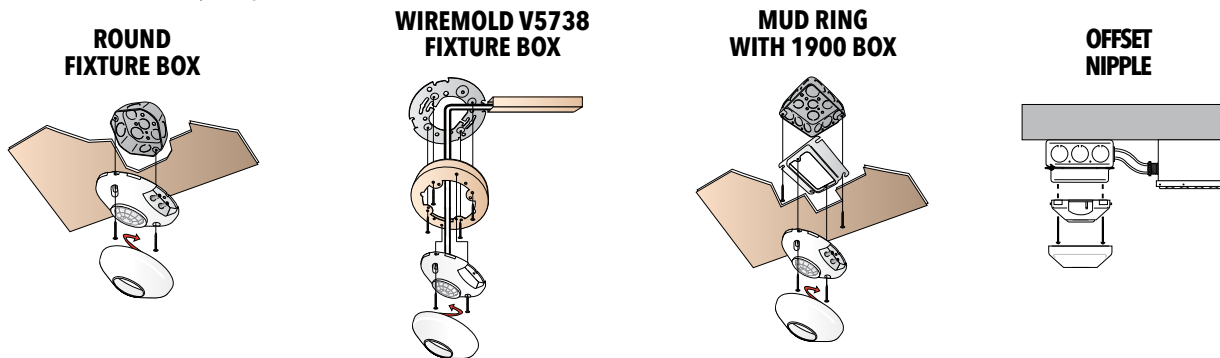
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DIGITAL SET-POINT CONTROL

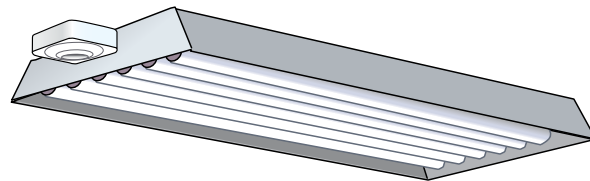
Each sensor contains a microcontroller that enables the user to engage the Automatic Set-Point Programming mode or to manually set / adjust the set-point. The manual process involves calculating and inputting the exact foot-candle value of the desired set-point into the sensor. It is important to note 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. 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".

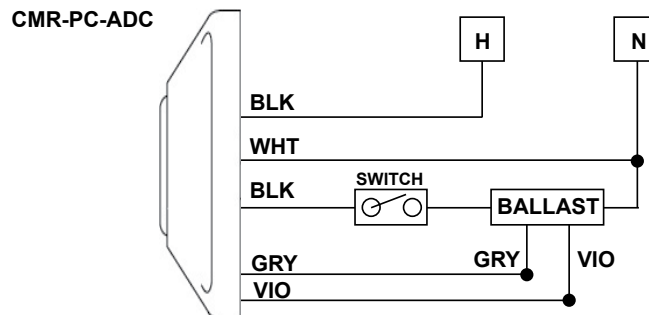


The fixture (CMRB) sensor enclosure provides an extended chase nipple that facilitates mounting to a half-inch knockout hole on the side of a fixture.



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	120/220/230/277, 80 mA, 50/60 Hz 347V, 80 mA, 50/60Hz 480V, 80 mA, 50/60Hz
Output Ratings	120V, 800W/6.67A - Tungsten, Ballast Output - 120/220/230/277V, 4.3A, 1200W, Ballast. 120V, 5A, General Purpose 220/230/277V, 4.3A, General Purpose. 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; <u>Do not include if only Class 1</u>
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