

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. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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 (B) DAYLIGHTING FAMILY SENSORS



ORDERING INFORMATION

CMR PC ADC/CMRB PC ADC			Example: CMRB PC ADC LT		
Series		Dimming	Voltage		Temp/Humidity
CMR	Ceiling Mount, Line Voltage	PC	On/Off Photocell	[blank] 120/230/277 VAC	[blank] 14° to 160°F
CMRB	Fixture Mount, Line Voltage	ADC	Automatic Dimming Control	347 347 VAC	LT -40° to 160°F
		PCADC	On/Off w/ Dimming Control	208 208 VAC	
				480 480 VAC	

OVERVIEW

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 WIRING (DO NOT WIRE HOT)

STANDARD WIRING

BLACK* - Line Input

BLACK* - Load Output

WHITE - Neutral

} *BLACK wires can be reversed

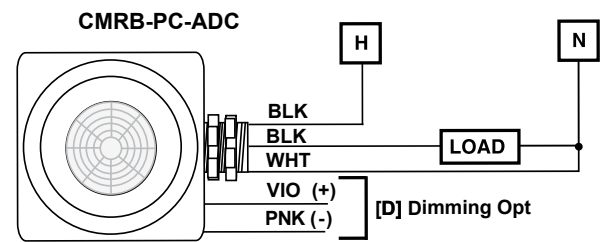
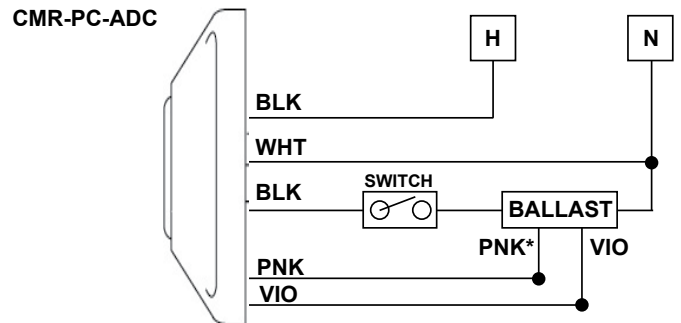
347 VAC OPTION (347)

Black wires are replaced w/Red wires

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 closed.



DIMMING OPTION (D)

VIOLET - Connect to Violet control wire from 0-10 VDC dimmable ballast

PINK - Connect to Gray common wire from Ballast

208, 480 VAC WIRING

For 480 VAC version the white wire connects to either the phase 1 or phase 2 line input.

BLACK Line Phase A

BLACK Phase A Load

BLUE Line Phase B

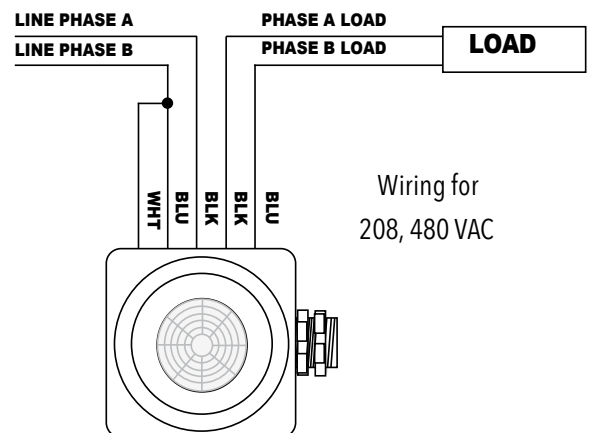
BLUE Phase B Load

WHITE Connect to Either Line Phase

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 closed.



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	120/220/230/27, 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