

OVERVIEW

The XPoint Wireless CMRB Sensor/Controller is a relay with 0-10V dimming control, occupancy sensor, and photo sensor all in one device. The CMRB Sensor/Controller provides a cost effective solution for high-bay applications by providing wireless control, occupancy detection, and daylight harvesting per individual fixture. It also has the added benefits of intelligent network communication including group control, current monitoring, and driver/lamp outage detection. The CMRB Sensor/Controller can be quickly installed on any fixture with a standard ½" knock out (KO) for field or factory installation.

The CMRB Sensor/Controller is a point of control for a flexible XPoint Wireless network in which lights can be easily configured to respond to one or more priorities. The system achieves energy savings not previously possible with control restricted to electrical circuits. The XPoint Wireless protocol is based on the open standard IEEE 802.15.4, delivering robust communication by forming a self-healing, adaptive mesh network that maintains connectivity even in difficult environments.

FEATURES

- Individually addressed
- Microcontroller that responds to the highest priority command
- Zero-cross switching for inrush protection
- Digital PIR and digital photodiode
- Measuring of energy consumption of controlled lighting
- Non-volatile memory retains information during power failures
- Integrated internal antenna – no external antenna required
- UL924 Listed option available for use with central emergency circuits

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.



XPoint™ Wireless

XPoint™ Wireless High-Bay Multi-Sensor and Controller



This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.



ORDERING INFORMATION

Example: XPA CMRB10						
System Type		Sensor & Lens Type				Emergency
XPA	XPoint Wireless	CMRB0 ¹	with relay and without lens	CMNB0 ^{1,2}	without relay and without lens	[blank] standard
		CMRB6	with relay and high-bay lens	CMNB6 ²	without relay and high-bay lens	EM ³ emergency
		CMRB10	with relay and extended range lens	CMNB10 ²	without relay and extended range lens	

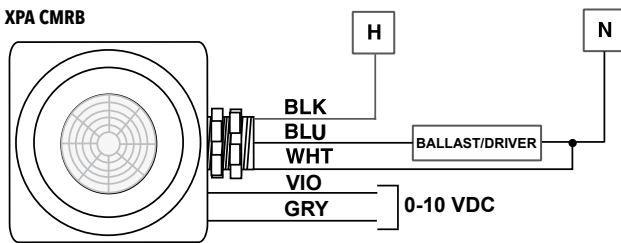
1. "0" Lens option indicates wireless controller with no sensing capability, to be used as KO-mount load controller.

2. CMNB models only available with Emergency "EM" option.

3. EM Options are UL924 Listed for use with central emergency circuits. Refer to XPoint Wireless UL924 Technical Bulletin for specification details and proper use.

WIRING DIAGRAMS

XPA CMRB



Wiring Legend

BLACK - Line Input

BLUE - Switched Load Output (XPA CMRB only)

RED - Unswitched Load Output (XPA CMNB only)

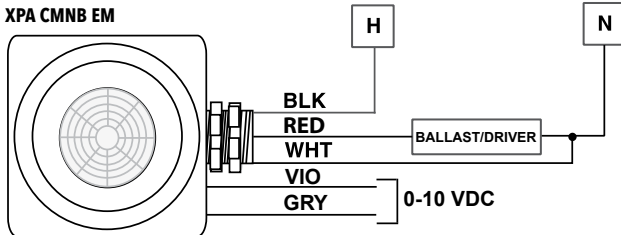
WHITE- Neutral

VIOLET- 0-10 VDC dimming signal

GRAY- 0-10 VDC dimming common

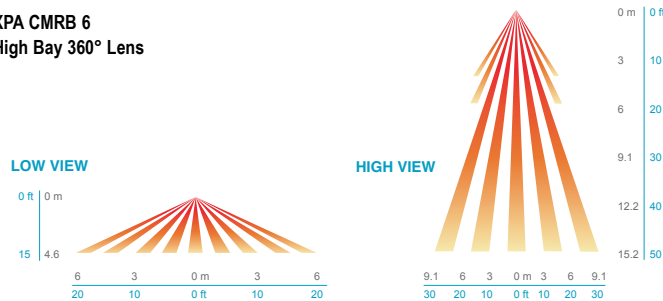
Do NOT wire hot.

XPA CMNB EM

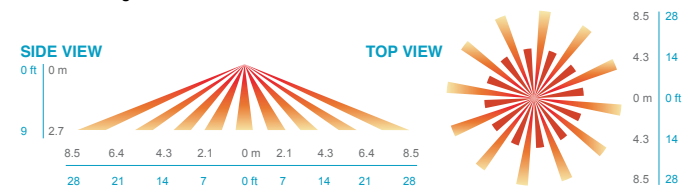


COVERAGE PATTERNS

XPA CMRB 6
High Bay 360° Lens



XPA CMRB10
Extended Range 360° Lens



SPECIFICATIONS

Dimensions: 3.625" w x 3.625" h x 1.5" d

Mounting: 1/2" knock out (KO)

Relays: Latching, SPST, Zero Crossing Control

Max. switched current: 5.6A Ballast rating

0-10V dimming: Current sinking up to 5 mA; Default trim 1.0 - 9.3VDC (software adjustable from 0.1 to 10.0VDC); Linear control; electrically isolated output

Wires: 18" long, rated for 600VAC, 18AWG

Power supply inputs: 120-277 VAC

Voltage measurement: 2% accuracy full scale

Current measurement: 2% accuracy full scale

Ambient temperature: 32° - 131° F (0° - 55° C)

Humidity/Location: 20-90% RH non-condensing, Indoor Damp Location

Memory: Configurable programming stored in non-volatile memory

Wireless protocol: Standards-based IEEE 802.15.4 (2.4GHz)

RF transmission output power: +18 dBm

Recommended wireless spacing: 30' to/from enclosed XPoint Wireless device (e.g., controller internally mounted in luminaire); 60' to/from un-enclosed XPoint Wireless device (e.g., sensor externally mounted to luminaire); Consult with factory to request approval for longer spacings as performance varies with site conditions.

Out of box operation: Lights at 100% of trimmed output when occupied, start dimming after 5 minutes vacancy to a minimum of 30% after 10 total minutes, lights do not turn off, photocell disabled out of box, no wireless communication with other sensors, until otherwise programmed.

Certifications: FCC ID: S4GEM358L

IC: 8735A-EM358L

Listings: UL and cUL listed

RECOMMENDED CONTROLLER SPECIFICATION OPTION FOR EMERGENCY LIGHTING STRATEGY

The following table provides a summary of the recommended control device specification option for use with a given emergency lighting strategy. For complete specification and application guidance, including example wiring diagrams, consult Application Note "Using XPoint Wireless Devices with Emergency Lighting," downloadable from [XPoint Wireless System Resources webpage](#).

Emergency Lighting Strategy	Recommended Control Device Option
<ul style="list-style-type: none">• Diesel genset emergency backup supply• Slow transfer inverter (> 30 ms) emergency backup supply	<p>"EM" Option</p> <ul style="list-style-type: none">• UL924 Listed.• Utilizes Power Interruption Detection to initiate lighting control override during loss of normal power scenarios.• Requires power interruption > 30 ms to luminaire during transfer to emergency backup supply.
<ul style="list-style-type: none">• Fast Transfer (FT) inverter emergency backup supply• Uninterruptible Power System (UPS) emergency backup supply	<p><i>Utilize Standard Option control device with a separately listed Emergency Bypass Relay or Generator Transfer Device, by others. See Application Note for additional details</i></p>
<ul style="list-style-type: none">• Luminaire-integral Battery Pack (BP) and emergency driver• Luminaire-integral AC micro-inverter• Generator Transfer Device (GTD)• Emergency Bypass Relay (separate from integral control device)	<p>Standard Option</p> <ul style="list-style-type: none">• Not specifically listed for emergency use.• Wired such a separately listed emergency device provides emergency lighting power and/or control during loss of normal power scenarios.