

OVERVIEW

The XPoint Wireless SBOR Sensor/Controller is a relay with 0-10V dimming control, occupancy sensor, and photo controller all in one device. The SBOR Sensor/Controller provides a cost effective solution for exterior areas or applications where an IP66 enclosure is needed to provide 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 SBOR Sensor/Controller can be quickly installed on any fixture with a standard 1/2" knockout (KO) for field or factory installation.

The SBOR 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
- IP66 rated enclosure
- 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 Wet Location 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 SBOR10 LL WH

System Type	Sensor & Lens Type	Mounting Option	Color	Emergency
XPA Xpoint Wireless	SBOR0 ¹ with relay and without lens	LL long neck w/ long knockout extender	WH white	[blank] standard
	SBOR6 with relay and high-bay lens	LS long neck w/ short knockout extender	BZ dark bronze	EM ³ emergency
	SBOR10 with relay and extended range lens	SL short neck w/ long knockout extender	BK black	
	SBON0 ^{1,2} without relay and without lens	SS short neck w/ short knockout extender	NA natural aluminum (gray)	
	SBON6 ² without relay and high-bay lens			
	SBON10 ² without relay and extended range lens			

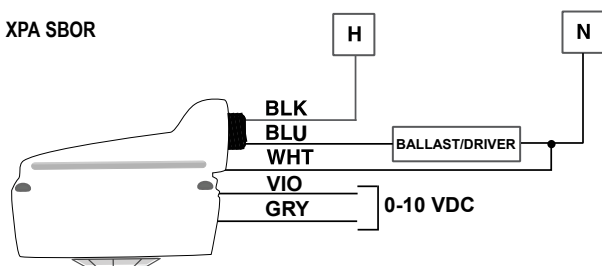
1. "0" Lens option indicates wireless controller with no sensing capability, to be used as KO-mount load controller.

2. SBON 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 SBOR



Wiring Legend

BLACK - Line Input

BLUE - Switched Load Output (XPA SBOR only)

RED - Unswitched Load Output (XPA SBON only)

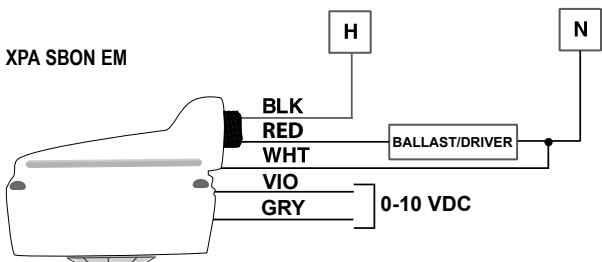
WHITE- Neutral

VIOLET- 0-10 VDC dimming signal

GRAY- 0-10 VDC common

Do NOT wire hot.

XPA SBON EM

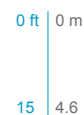


COVERAGE PATTERNS

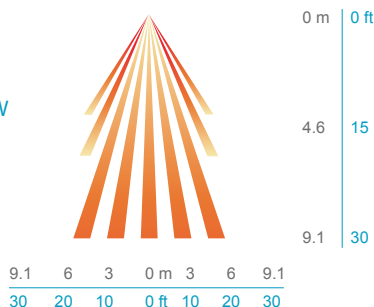
XPA SBOR6

High Bay 360° Lens

LOW VIEW



HIGH VIEW



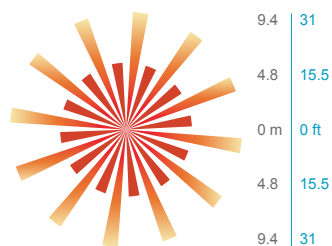
XPA SBOR10

Extended Range 360° Lens

SIDE VIEW



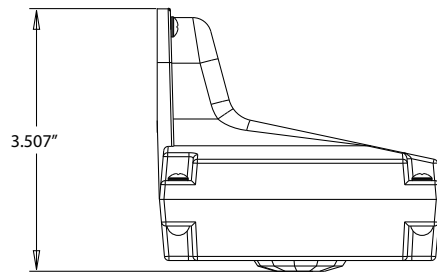
TOP VIEW



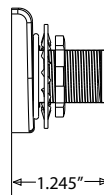
SPECIFICATIONS

Dimensions:	3.71" w x 3.71" h x 3.36" d
Mounting:	1/2" knock out (KO). Gasket seal included
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:	-40° - 158° F (-40° - 70° C)
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

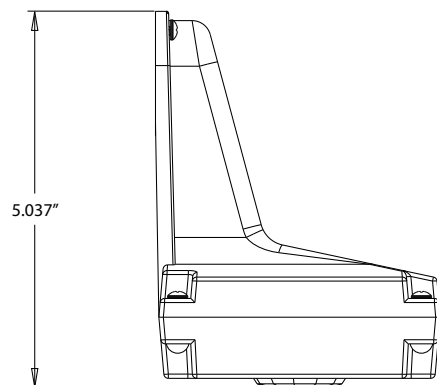
MOUNTING OPTIONS



Low Back

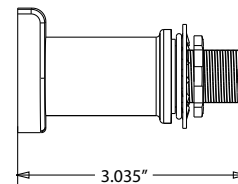


**Short
Extension**



High Back

**Long
Extension**



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	"EM" Option <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	<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>
<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)	Standard Option <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.