

OVERVIEW

The XPoint Wireless Light Controller is a relay with 0-10V dimming control and a port for an optional embedded sensor. The Light Controller provides a high performing solution for individual fixture dimming control with all the benefits of intelligent network communication including group control, current monitoring, and driver/ballast outage detection. When needed the digital port allows for connection of a digital embedded sensor providing occupancy and light level information to the system.

The Light Controller is a point of control for a flexible 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. XPoint Wireless utilizes a protocol for fail-safe communication based on the open standard IEEE 802.15.4 to form a self-healing, adaptive mesh network that maintains connectivity regardless of site conditions.

FEATURES

- Microcontroller that responds to the highest priority command
- Zero-cross switching for inrush protection
- Integrated voltage and current monitoring to support energy analytics and fixture outage detection
- Non-volatile memory which retains information during power failures
- Slim profile design for easy mounting within the ballast/driver cavity of lighting fixtures
- Integrated internal antenna - no external antenna required
- Available as factory pre-installed into select Acuity Brands' luminaires
- Works with the following optional digital occupancy & photo sensors: XPA DS ES7 (indoor microsensor) and XPA DS SBG6/10 (wet location high or low bay embedded sensor)
- UL924 Listed option available for use with central emergency circuits

Warranty

Five-year limited warranty. 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.



XPoint™ Wireless

XPoint™ Wireless Light 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

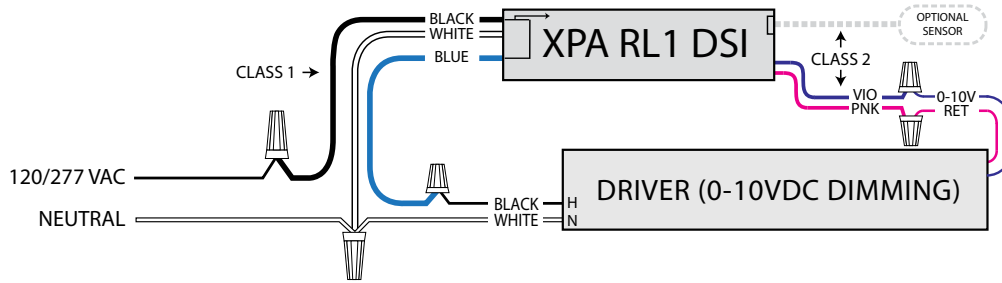
Example: XPA RL1 DSI		
System Type	Controller Type	Emergency
XPA XPoint Wireless	RL1 DSI Light Controller, Single Relay, 0-10V Dimming, Energy Monitoring	[blank] standard
	RL0 DSI ¹ Egress Light Controller, No Relay, 0-10V Dimming, Energy Monitoring	EM ² emergency

1. RL0 model only available with emergency "EM" option.

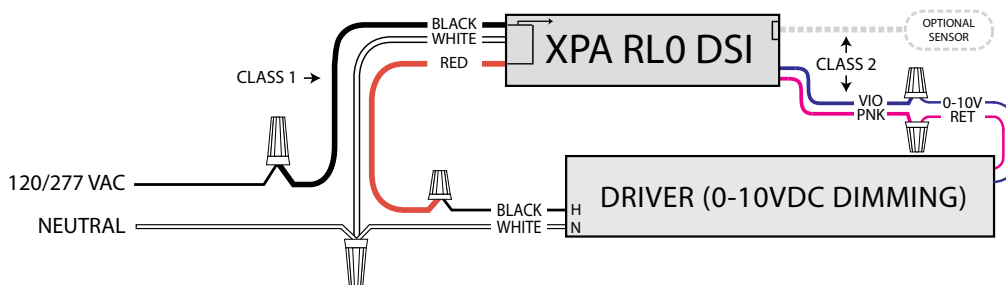
2. EM Options are UL924 Listed for use with central emergency circuits. Refer to XPoint Wireless UL924 Technical Bulletin for specification details and proper use.

WIRING DIAGRAMS

XPA RL1 DSI



XPA RL0 DSI EM



SPECIFICATIONS

Dimensions:	7.625" w x 1.19" h x 1" d
Mounting:	Screws, 7.25" hole spacing
Relay:	Normally Open, SPST, Zero Crossing Control
Max switched current:	5A Ballast 5A Tungsten
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
Digital Sensor Port:	3VDC electrically isolated Class 2 connection
Wires:	12" long, rated for 600 VAC, 18 AWG
Power supply inputs:	120-277 VAC
Voltage measurement:	2% accuracy full scale
Current measurement:	2% accuracy full scale
Ambient temperature:	-20° - 158° F (-29° - 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 another enclosed XPoint Wireless device (e.g., controller internally mounted in luminaire); Consult with factory to request approval for longer spacings as performance varies with luminaire type and site conditions.
Out of box operation:	If no sensor connected, relay closed (lights on) and dimming at 100% of trimmed output, uncontrolled until otherwise programmed; If XPA DS sensor is connected, 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	"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.