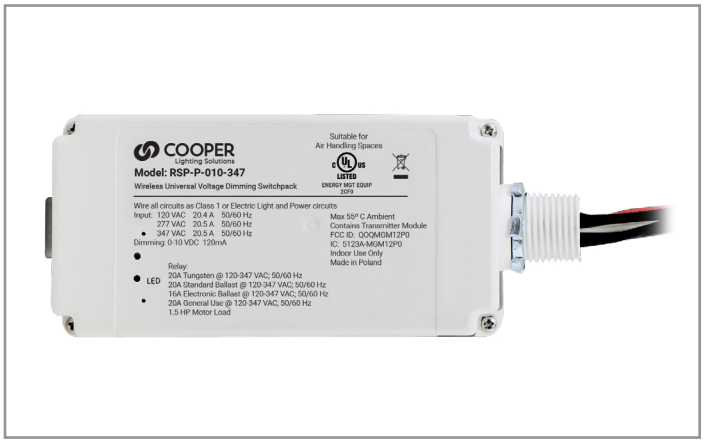
Project		Catalog #		Type	
Prepared by		Notes		Date	



WaveLinx

PRO Dimming Switchpack (RSP-P-010-347)

120/277/347 VAC Wireless Dimming Switchpack with 20A Relay and one 0-10V Dimming Ouput

Typical Applications

Office • Education • Healthcare • Hospitality • Retail
Industrial • Manufacturing

Interactive Menu

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- Additional Resources page 3
- Wiring Diagrams page 3
- Connected Systems page 4
- Product Warranty

Product Certification*

CERTIFIED

Part 15/ICES-003

Product Features

WaveLinx Mobile App

IEEE 802.15.4

Device Security

Customer Security

Receptacle Control

Compatibility

WaveLinx PRO

Overview

The PRO Dimming Switchpack (RSP-P-010-347) is a 120/277/347 VAC powered device with a 20A relay and one continous 0-10V dimming output used to control LED and non LED luminaires as well a plug load. The PRO Dimming Switchpack is powered by the 120-347VAC (+/- 10% Single Phase) circuit it is controlling and provides simple 1/2" knockout mounting. The relay is used to turn on/off the fixtures powered by the circuit while the 0-10V output is used to raise and lower the light levels of the luminaires equipped with 0-10V drivers.

The PRO Dimming Switchpack communicates with other Pro devices over the WaveLinx IEEE 802.15.4 wireless mesh network.

Note: A 20A circuit breaker is required in the AC power source circuit where Wavelinx PRO RSP is connected to provide line protection.

Product Features & Benefits

- Output control loads up to 20 amps or 1.5 HP and 0-10V dimming control
- Plenum rated design with easy junction box mounting
- Universal voltage input (120-347 +/-10% Single Phase)
- Fails safe to 100% if communications are lost

*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Order Information

The PRO Dimming Switchpack is an integral part of the WaveLinx system. It communicates with the WaveLinx Area Controller and other PRO devices.
The PRO Switchpack is used to control luminaires and plug loads.

Catalog Number

Catalog Number	Description
RSP-P-010-347	Wireless Universal Voltage Dimming Switchpack - 20 amp
Note Replaces WSP-UV-010 and WSP-MV-010	

Required Accessories

All WaveLinx connected lighting (WCL) system accessories require at least one WaveLinx Area Controller (WAC) for communications.
Ensure the bill of material includes one of the following components.

Catalog Number

Catalog Number	Description
WAC2-POE	WaveLinx Area Controller G2, PoE powered
WAC2-120	WaveLinx Area Controller G2 with 120VAC to PoE Injector

Optional Accessories

For connection to 120VAC outlets.

Catalog Number

Catalog Number	Description
WPOE2-120	120VAC to PoE Injector

Product Specifications

Mechanical

Size: 1.7”H x 2.6”W x 6.1”L (43mm x 66mm x 155mm)
Environment:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Storage temperature:** 32°F to 158°F (0°C to 70°C)
- **Relative humidity operating:** 10% to 90% RH (non-condensing)
- For indoor use only

Mounting: Mounts to the side of a 4” (102mm) square box via ½” (13mm) knockout
Color: Matte White
Housing: Medium impact injection molded housing. ABS resin with 5VA flame rating. Plenum rated for external junction box mounting with Teflon coated leads.

Electrical

Power:

- 120-347VAC (+/- 10%) 50/60Hz (Single Phase)

Output Information:

- 20amp 120-347VAC General Purpose (Single Phase)
- 16amp 120-347VAC electronic ballast (LED load) (Single Phase)
- Single class 2 0-10V dimming output (IEC 60929 Annex E) sinks up to 120mA per (40 µA max per circuit leakage to line)
- 0-10V output supports up to 60 ballasts/drivers that source up to 2mA each

Wireless Specifications

Radio: 2.4GHz
Standard: IEEE 802.15.4
Transmitter Power: + 10dBm
Range: 150ft (46m) LOS typical
50ft (15m) through standard walls when mounted outside junction box
# of Walls: 2 interior walls standard construction

System Performance

Maximum number of Devices: 200 per WaveLinx Area Controller (best practice 150 devices)

Standards/Ratings*

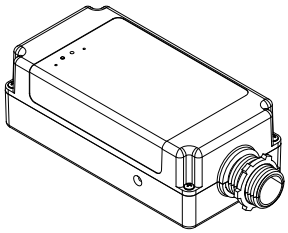
- cULus Listed - Energy Management Equipment (UL916)
- FCC part 15 Sub Part B
- Manufactured in an ISO 9001 certified factory
- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

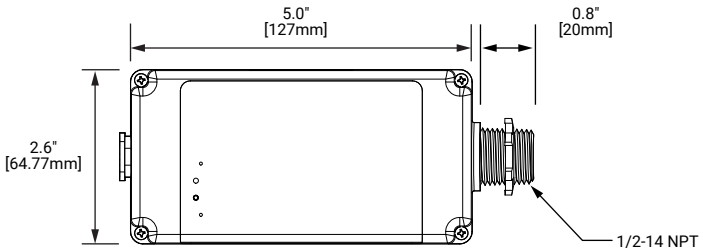
Warranty

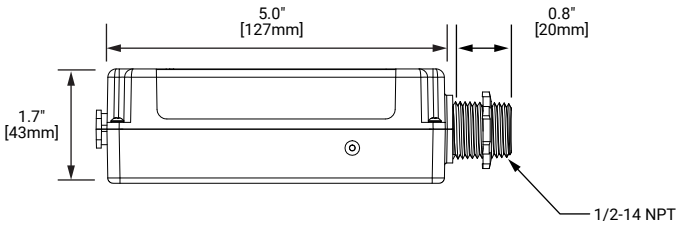
Five year warranty standard

*T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

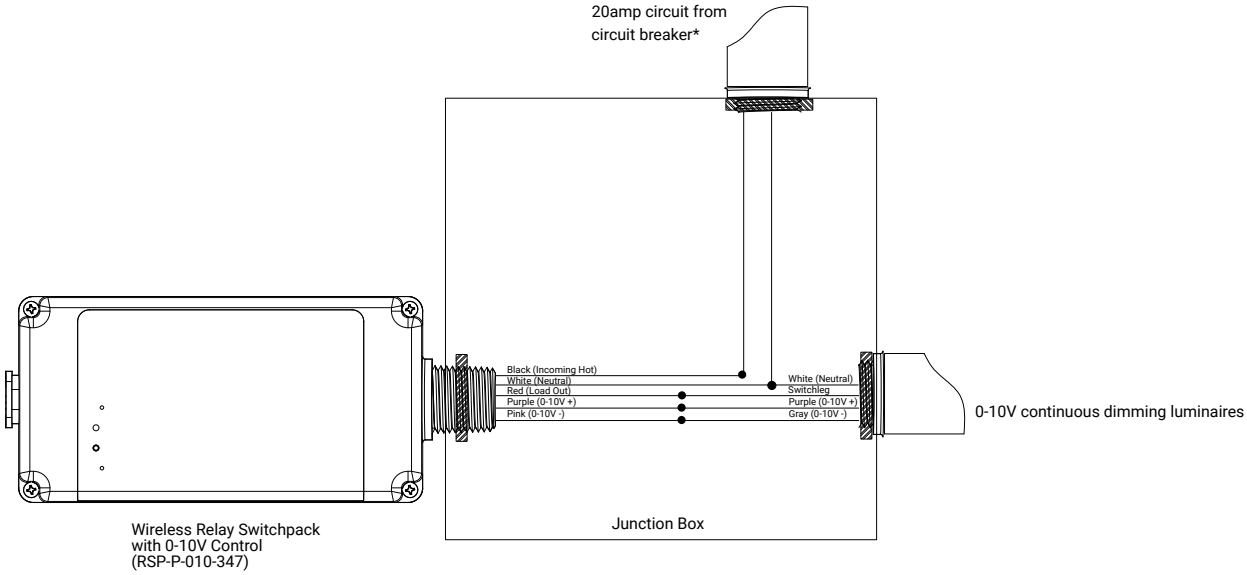
Dimensional Details

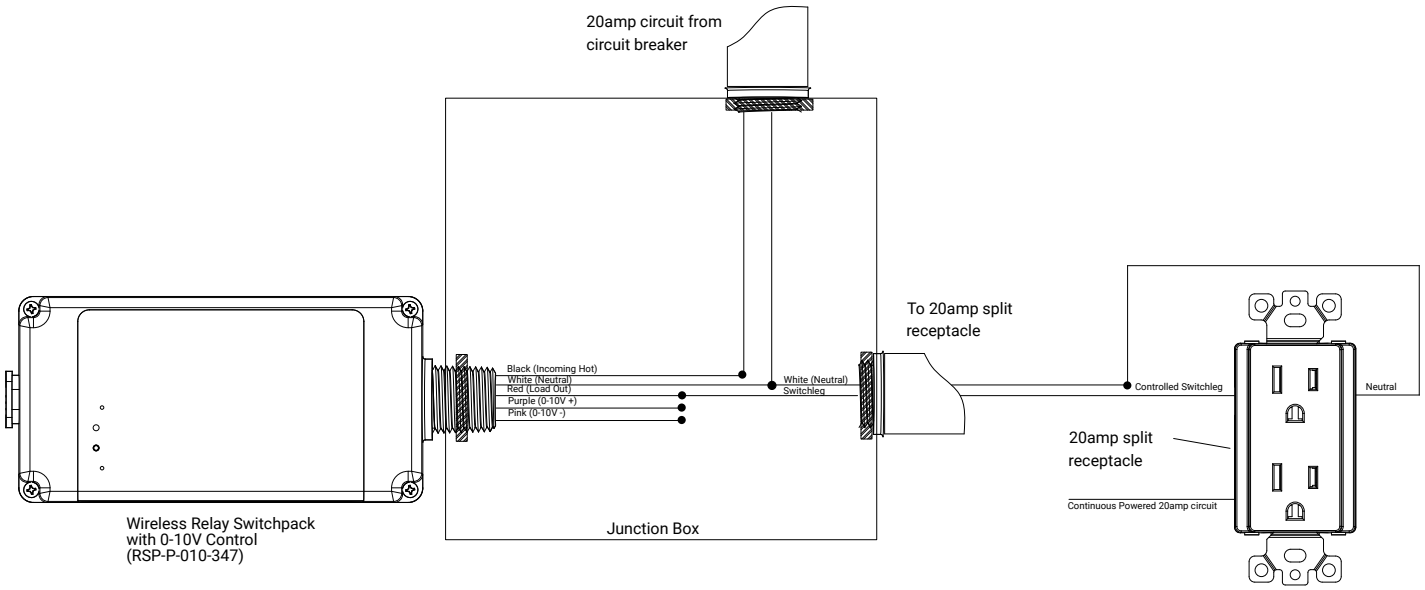






Mounting





System Diagram:

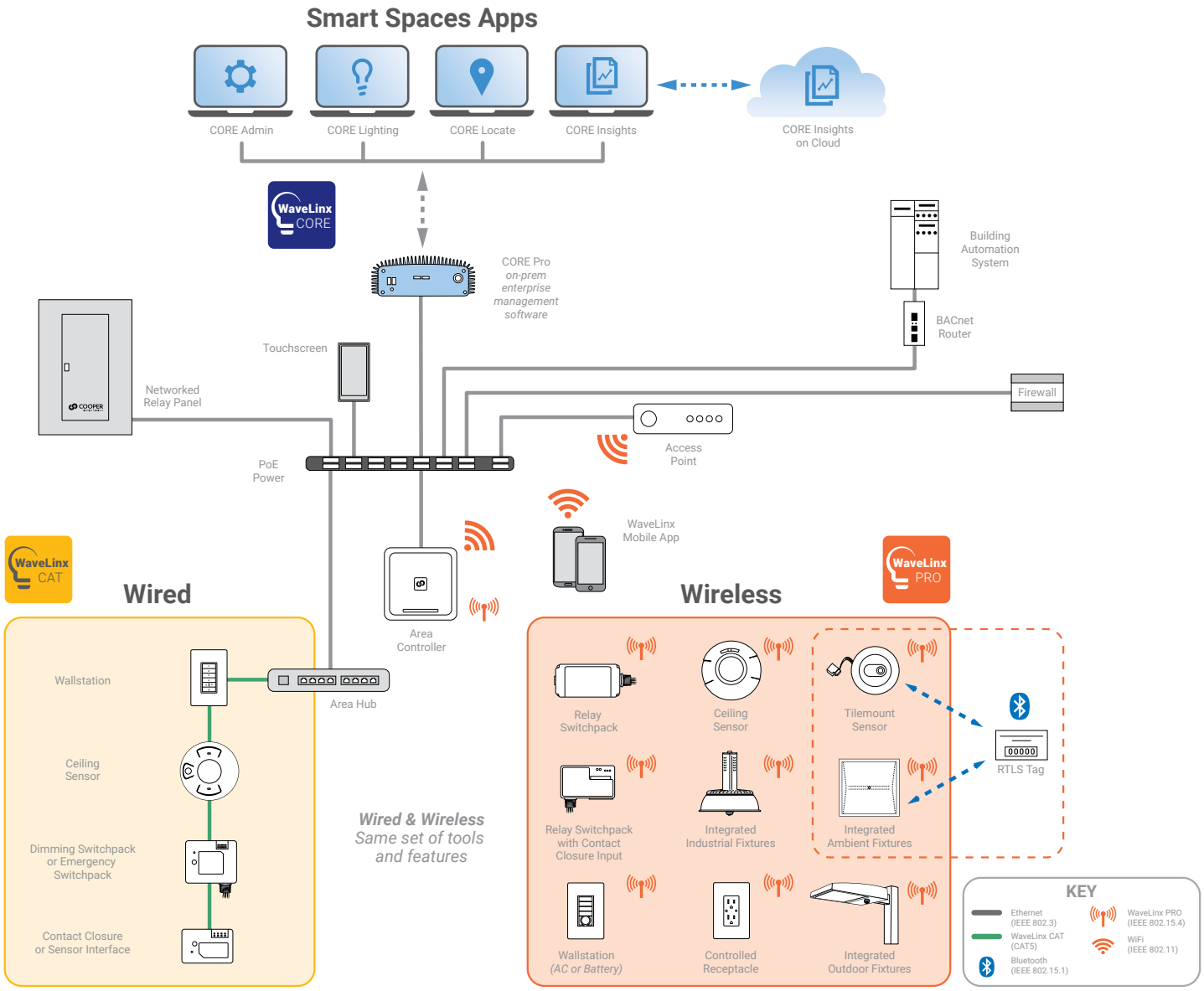
This diagram shows the main components of the WaveLinx connected lighting system with CAT and PRO devices.

The PRO devices communicate using wireless mesh technology based on the IEEE 802.15.4 standard. A PoE LAN connection for each WaveLinx Area Controller (WAC) is required for power and data access to the building lighting network.

The CAT devices communicate over the category 5 based communication bus and control the light fixtures using a relay (on/off) and 0-10V output (dim/raise).

WaveLinx Area Controllers (WAC) communicate with WaveLinx CORE Apps over the Ethernet network.

View WaveLinx Network and IT Guidance Technical Guide



Control Systems

- WaveLinx

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Specifications and dimensions subject to change without notice.