Project	Ca	atalog #	Туре	
Prepared by	No	lotes	Date	



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Top Product Features

- · Allows a dimmer's power handling capacity to be extended to a full 1000W/VA on 120V input power
- Allows a dimmer to dim or switch a fully loaded circuit of electronic low voltage and incandescent loads only

Product Certification

CE

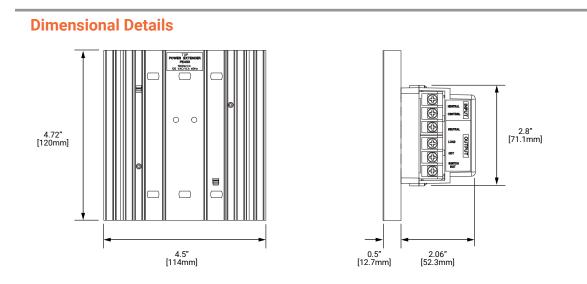
Product Features

FC

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inx Wire

- Works with electronic low voltage and incandescent
- · Emulates the characteristics of the dimmer that it is connected to in terms of dimming range and resolution





WaveLinx Wired

Order Information

Catalog Number

PE400-1 P	Power Extender
Catalog Number	Description

Product Specifications

Key Features

- · Works with electronic low voltage and incandescent
- Emulates the characteristics of the dimmer that it is connected to in terms of dimming range and resolution

Mechanical

Size: 4.72" x 4.5" x 0.5" (120mm x 114mm x 12.7mm) Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Storage temperature: -50°F to 185°F (-10°C to 85°C)
- Relative humidity : 20%-90%, non-condensing

For indoor use only

Mounting:

- All Power Extenders must have 4-1/2" spacing above and below each unit for proper ventilation and heat dissipation
- Line voltage wiring should be at least 6ft away from sound or electronic equipment wiring

Housing: Aluminum clear anodized extruded heat sink with a snap-on molded white cover

Electrical

Input Requirements:

- Range input voltage: 120V, 50/60 Hz
- Electronic low voltage and Incandescent loads only
 Load Output Power: Phase independent of control device
 Load Rating: 1000W/VA

Dimmer Input: 120V, 50/60 Hz

Standards/Ratings

- UL Listed
- FCC Part 15

Warranty

Consult website for warranty information



WaveLinx Wired

Mounting

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All Power Extenders must have 4-1/2" spacing above and below each unit for proper ventilation and heat dissipation (refer to Figure 3). Line voltage wiring should be at least 6ft away from sound or electronic equipment wiring. Mount Power Extender to wall box with "TOP" facing up as follows: For Wall Box Mounting (refer to Figure 1), for Flush Mounting (refer to Figure 2) and for Panel Mounting (not shown), proceed as follows:

- A. The enclosure must be in accordance with all local and national electrical codes.
- B. Cooper Lighting Solutions DOES NOT recommend using a door to enclose the front of a panel, since this restricts airflow to the controls.
- C. If mounting multiple controls in an enclosure:
 - Ambient timperature within an enclosure "MUST REMAIN BETWEEN" 32º-104º F (0º-40º C).
 - If not mounting in a metal enclosure, all units "MUST" be mounted in a wall box.
- D. To improve heat dissipation of controls, remove the faceplate from the unit.

Figure 1: Surface Mounting

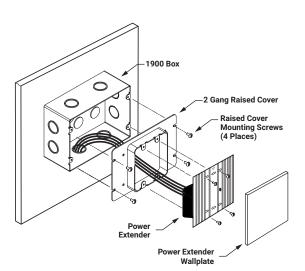


Figure 2: Flush Mounting

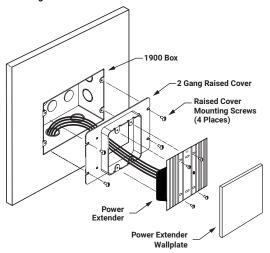
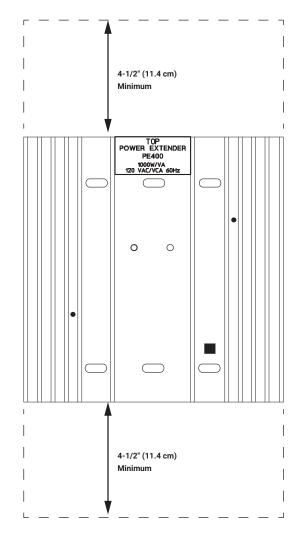


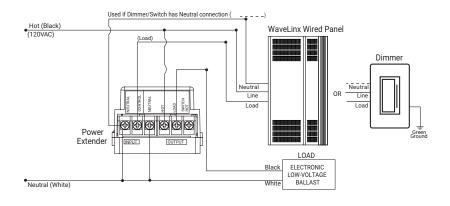
Figure 3: Front View Spacing



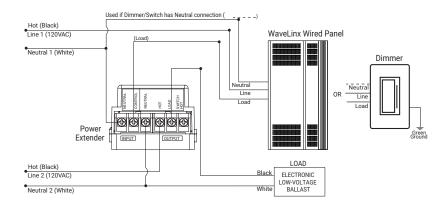


Wiring Diagrams

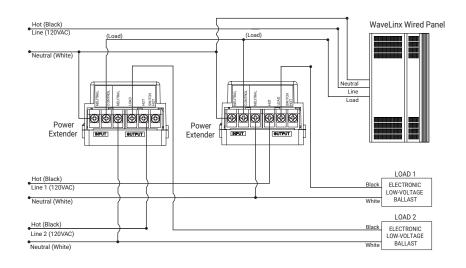
Wiring Diagram 1: Single Feed Wiring Application



Wiring Diagram 2: Dual Feed Wiring Application



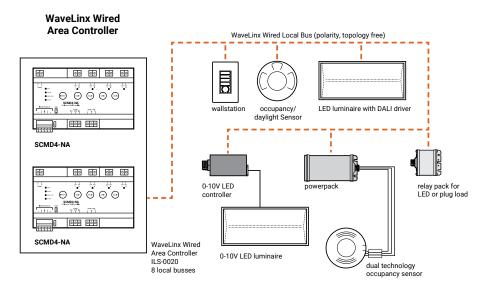
Wiring Diagram 3: Dual Feed Wiring Application w/Controller and Two Power Extenders



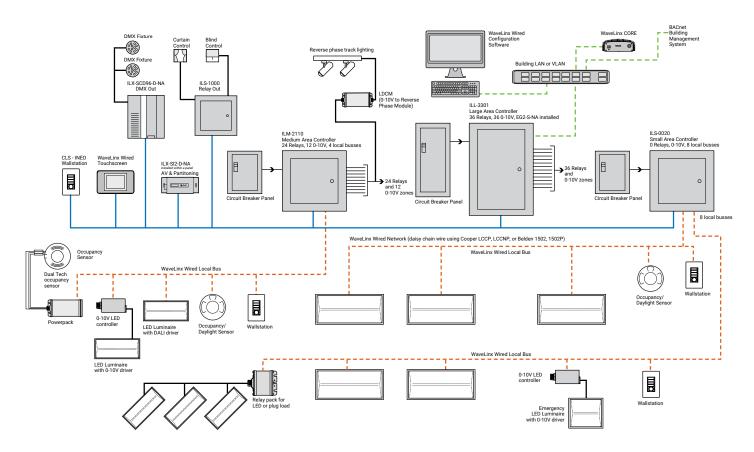


System architecture

Simple WaveLinx wired system



Complete WaveLinx wired system





WaveLinx Wired

Power Extender

View

WaveLinx Network

and IT Guidance

Technical Guide

Sample System Topology:

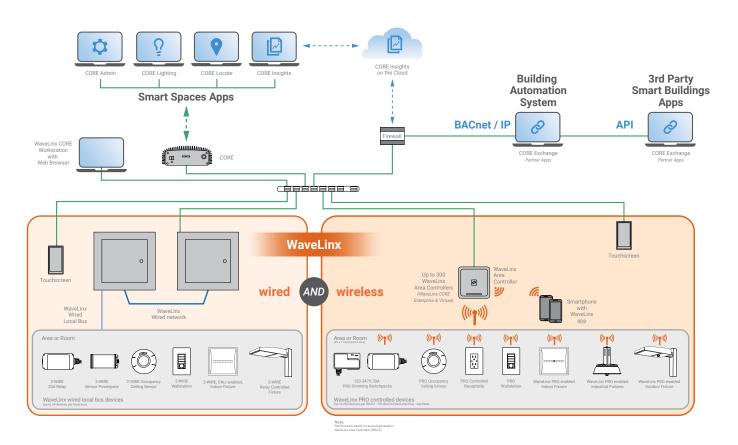
This diagram shows the main components of the WaveLinx wired and PRO wireless connected lighting system.

The **WaveLinx PRO wireless system** communicates 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 **WaveLinx wired system** controls the devices using relay, 0-10V, DMX and the WaveLinx wired digital local bus. The WaveLinx wired system connects to the building LAN using the EG2 module. Each WaveLinx wired area controller communicates on the WaveLinx wired network.

WaveLinx Area Controllers (WAC) and WaveLinx Ethernet Gateways (EG2) communicate with WaveLinx CORE over the Ethernet network.

Please refer to the WaveLinx PRO Wireless Network and IT Guidance Technical Guide and WaveLinx Wired Network and IT Guidance Technical Guide for more information.



Control Systems

- WaveLinx
- WaveLinx wired
- VividTune



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com © 2023 Cooper Lighting Solutions All Rights Reserved. Specifications and dimensions subject to change without notice.

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