Project		Catalog #		Type	
Prepared by		Notes		Date	

Several small and large button configurations available

WaveLinx

PRO Battery-Powered Wallstation (WB-Series)

Surface mounted multi-scene battery-powered wallstation

Typical Applications
Office • Education • Hospitality • Retail • Industrial • Manufacturing

Interactive Menu

- Order Information pages 2 and 3
- Button Options pages 2 and 3
- Additional Resources page 4
- Connected Systems page 6
- Product Warranty

Product Certification*

UL CERTIFIED   FC Part 15/ICEC-003   RoHS COMPLIANT

- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

Product Features

WaveLinx Mobile App   IEEE 802.15.4   Device Security   Customer Security

Manual Dimmer   Manually Switched ON/OFF   Battery Powered

Compatibility

WaveLinx PRO

Overview

The WB-Series wallstation is a dimming wallstation providing customized light levels for each area. The wallstation has several small and large button configurations with raise and lower options. Each button's action is customized from the WaveLinx mobile application.

The wallstation is an integral part of the WaveLinx connected lighting system. It communicates with WaveLinx Area Controller over the IEEE 802.15.4 wireless mesh network.

The wallstation is powered by four AAA Alkaline batteries and mounts on a wall's surface. It comes with a complementary decorator-style white wall plate.

Product Features & Benefits

- **Configurable button options –** Customize the wallstation to offer best occupant experience with small/large buttons and raise and lower options
- **Button's action configurable via software –** Customize the actions of each button to a specific light level, scene or shades level with a toggle option using the WaveLinx Mobile App
- **5-year battery life with battery monitoring –** Get automatic notifications on WaveLinx CORE when the battery level is low
- **Surface Mounting wallstation –** Simple installation with minimum tooling making it a great solution for thin or glass walls

COOPER Lighting Solutions
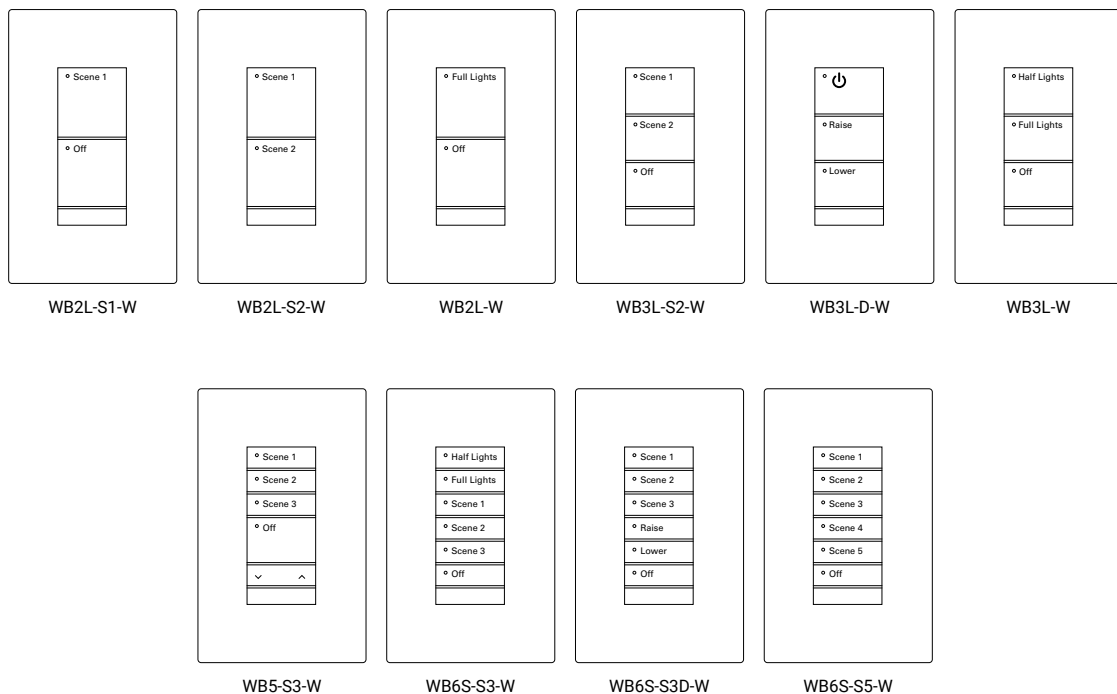
Order Information

The WaveLinx PRO WB-Series Battery-power wallstation is an accessory to the WaveLinx connected lighting (WCL) system and requires a WaveLinx Area Controller (WAC) for full functionality.

The WaveLinx PRO WB-Series Battery-power wallstation is used to provide local and multi-level control in spaces and can be mapped to multiple zones in an area to create customizable light levels from simple control to architectural.

Catalog Number

Catalog Number	Description	Color Options	Button Engraving
WB2L-S1 -*	WaveLinx PRO Battery, 2 button large wallstation, white, S1	*=W - White	**BLANK** = Standard Engraving **ENGRV** = Customer Specified Engraving
WB2L-S2 -*	WaveLinx PRO Battery, 2 button large wallstation, white, S2	*=W - White	
WB2L-*	WaveLinx PRO Battery, 2 button large wallstation, white	*=W - White	
WB3L-S2 -*	WaveLinx PRO Battery, 3 button large wallstation, white, S2	*=W - White	
WB3L-D -*	WaveLinx PRO Battery, 3 button large wallstation, white, D	*=W - White	
WB3L-*	WaveLinx PRO Battery, 3 button large wallstation, white	*=W - White	
WB5-S3 -*	WaveLinx PRO Battery, 5 button wallstation, white, S3	*=W - White	
WB6S-S3 -*	WaveLinx PRO Battery, 6 button small wallstation, white, S2	*=W - White	
WB6S-S3D -*	WaveLinx PRO Battery, 6 button small wallstation, white, S3D	*=W - White	
WB6S-S5 -*	WaveLinx PRO Battery, 6 button small wallstation, white, S5	*=W - White	
Notes	**Notes**	**Notes**	
	All WaveLinx PRO Wallstations include standard engraving and color matching screwless single gang wallplates. For custom engraving use the configurator tool within the FlashPro tool.		

These are standard engraving options that require field programming through the WaveLinx PRO Mobile Application.

WB2L-S1-W | WB2L-S2-W | WB2L-W | WB3L-S2-W | WB3L-D-W | WB3L-W

WB5-S3-W | WB6S-S3-W | WB6S-S3D-W | WB6S-S5-W

Required Accessories

All WaveLinx connected lighting (WCL) system accessories require at least one WaveLinx Area Controller (WAC2) 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: 4.5"H x 2.8"W x 0.5"D (114mm x 70mm x 13mm)
Environment:
- **Operating temperature:** 14°F to 104°F (-10°C to 40°C)
- **Storage temperature:** 14°F to 104°F (-10°C to 40°C)
- **Relative humidity operating:** 5% to 95% non-condensing
- For indoor use only

Mounting: Surface mount
Color: White

Electrical
Power supply type: (4) AAA Alkaline batteries (provided)
Status Indicators:
- Button LEDs - White (one per scene button)
- LED functionality
  - Indication of wireless network join request
  - Indication of wireless network connection
  - Scene indication of operations

Button Configuration: 2, 3, 5 and 6 button options

Software Specifications
- Each button programmable to trigger or toggle Scene or Zone
- Default values when joined to an area via WaveLinx PRO Mobile application
- Fade rates and scene transitions are programmable

Wireless Specifications
Radio: 2.4GHz
Standard: IEEE 802.15.4
Transmitter Power: + 8dBm
Configuration type: Router, End Point
Range: 100ft (50m) LOS through 2 interior walls of standard construction
Note - metal faceplates will reduce wireless range

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

Standards/Ratings*
- cULus Certified
- FCC Part 15
- RoHS Compliant
- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements

Warning
- This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.
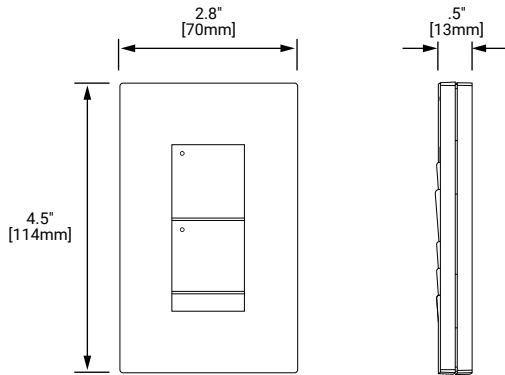
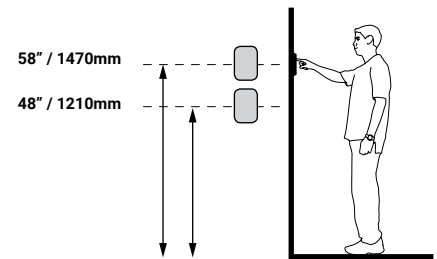### Warranty
Five year warranty standard

Download the WaveLinx PRO Mobile Application from either the Google Play or Apple Store®

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Lighting Solutions
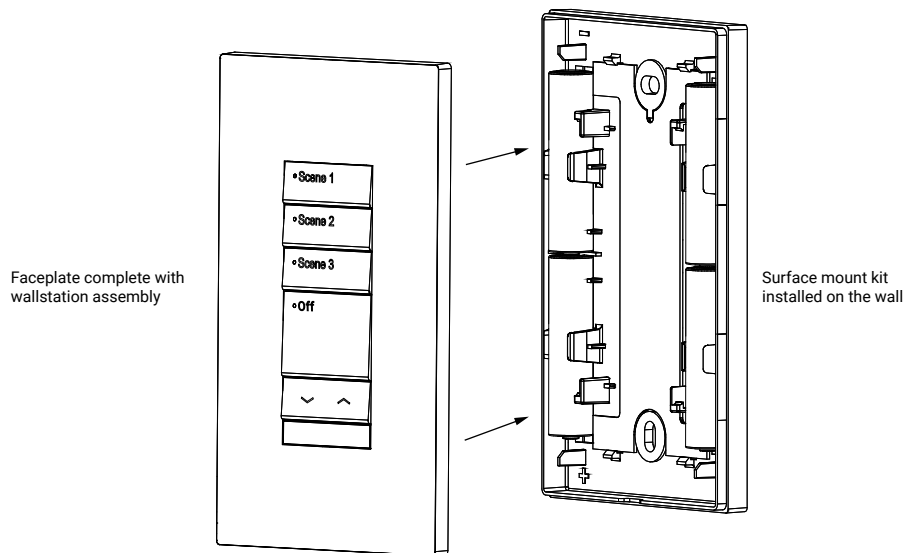
Dimensional Details

2.8"
[70mm]

.5"
[13mm]

4.5"
[114mm]

Mounting Height

58" / 1470mm

48" / 1210mm

Installation

Scene 1

Scene 2

Scene 3

Off

Faceplate complete with wallstation assembly

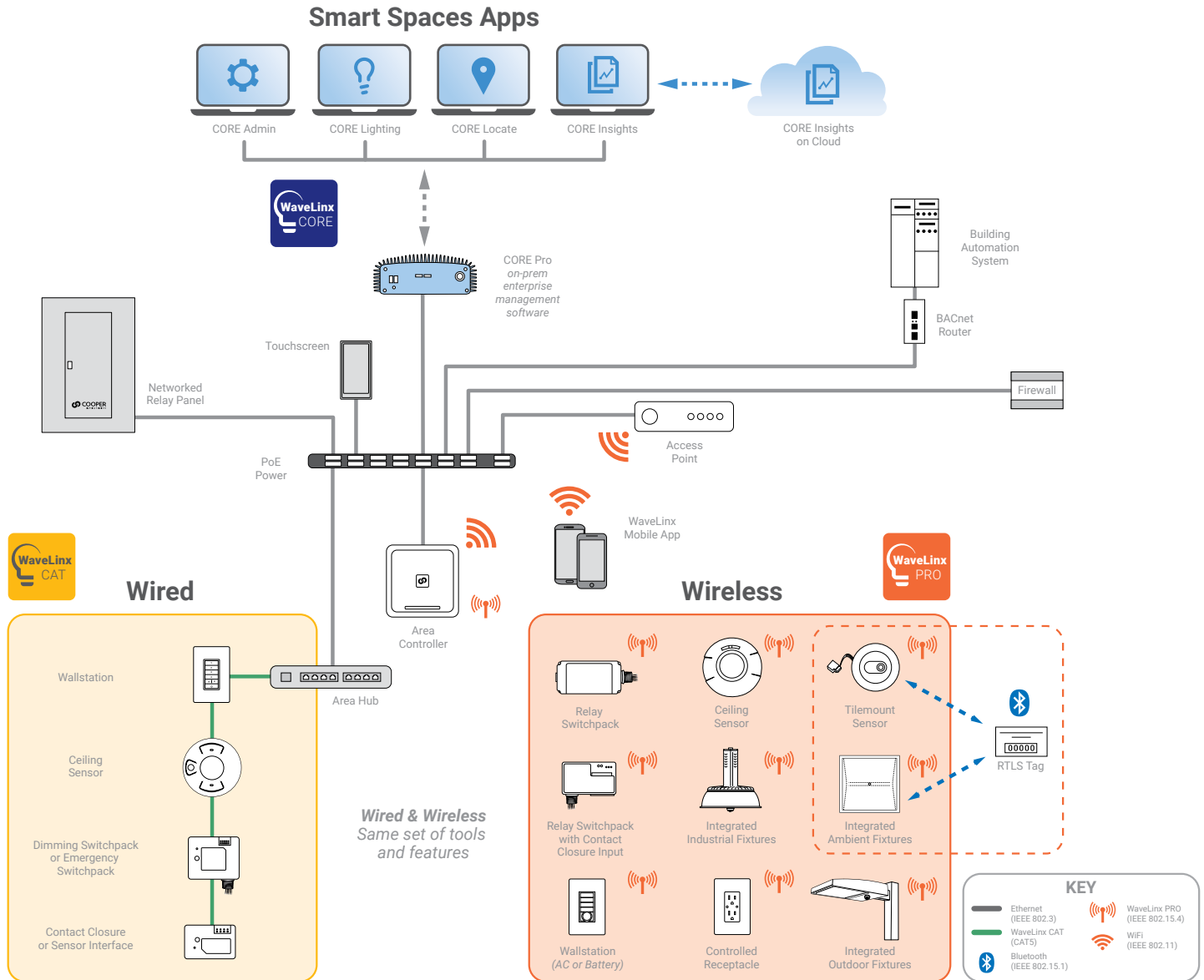Surface mount kit installed on the wall

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

Smart Spaces Apps

CORE Admin | CORE Lighting | CORE Locate | CORE Insights | CORE Insights on Cloud

WaveLinx CORE

CORE Pro *on-prem enterprise management software*

Touchscreen

Building Automation System

BACnet Router

Networked Relay Panel

Firewall

PoE Power

Access Point

WaveLinx Mobile App

WaveLinx CAT

Wired

- Wallstation
- Ceiling Sensor
- Dimming Switchpack or Emergency Switchpack
- Contact Closure or Sensor Interface

Area Hub

Area Controller

Wired & Wireless Same set of tools and features

Wireless

WaveLinx PRO

Relay Switchpack | Ceiling Sensor | Tilemount Sensor

RTLS Tag

Relay Switchpack with Contact Closure Input | Integrated Industrial Fixtures | Integrated Ambient Fixtures

Wallstation *(AC or Battery)* | Controlled Receptacle | Integrated Outdoor Fixtures

KEY

—	Ethernet (IEEE 802.3)	((•))	WaveLinx PRO (IEEE 802.15.4)
—	WaveLinx CAT (CAT5)	🛜	WiFi (IEEE 802.11)
🅱	Bluetooth (IEEE 802.15.1)		

Control Systems
- WaveLinx

Cooper Lighting Solutions

Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- **Never spray any fluids directly into the device.**
- **Use of ammonia-based or VOC cleaners on this device must be avoided.** Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- **Use a damp rag or single-use wipe** to avoid excess liquid penetrating the device.
- Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found inhousehold cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes **cannot contain bleach, ammonia, highly alkaline or concentrated acids.**
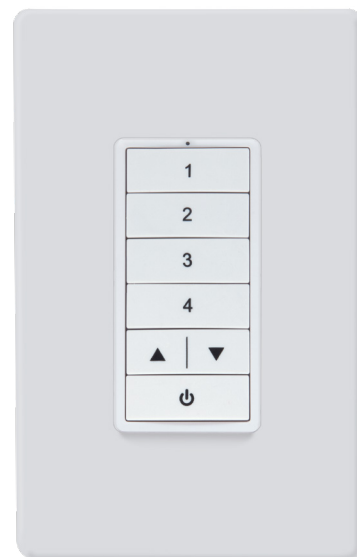
image for reference only

⚠️ **WARNING**

This product is not intended for use in applications involving the use of ammonia-based or VOC cleaners.

Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- **Never spray any fluids directly into the device.**
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.
- If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- Remove an excess liquid remaining on the device with a dry cloth or paper towel.