Project		Catalog #		Type	
Prepared by		Notes		Date	

small and large button configurations available
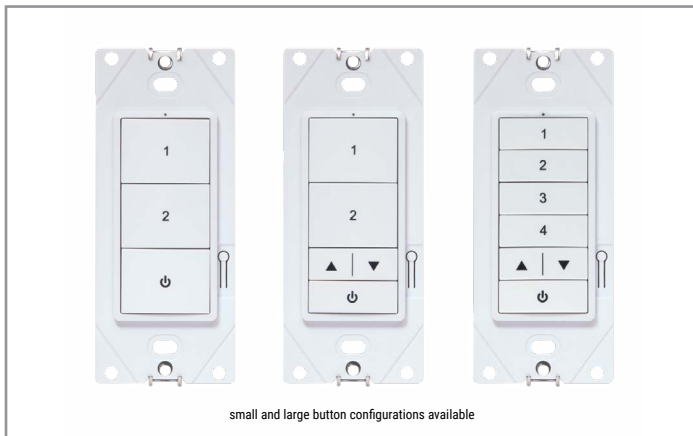
WaveLinx Lite
Line Voltage Wallstation

Multi-scene, single area dimming wallstation which provides customized light level for each area

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

🔗 Interactive Menu

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- Additional Resources page 3
- Product Warranty

Product Certification

UL CERTIFIED SAFETY   FC Part 15/ICEC-003   ❋ Bluetooth®

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

Product Features

IEEE 802.15.1   **Device Security**   **Customer Security**   **Manual Dimmer**   **Manually Switched ON/OFF**

## Top Product Features

- Multi-scene selection, raise/lower, off for an area
- Suitable for standard single or multi-gang NEMA wall box
- Line voltage (120-277VAC) powered with no batteries to replace for simple new or retrofit installations
- Clean, elegant and simple control
- Configurable through software - no physical adjustments

Dimensional Details

1.8" [45mm]

1.3" [32mm]

4.2" [107mm]

4.2" [107mm]

1.5" [36mm]

Mounting Height

58" / 1470mm

48" / 1210mm
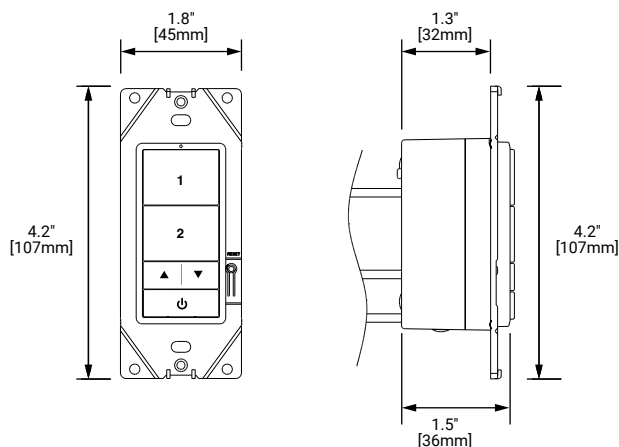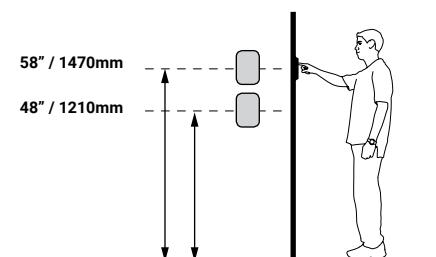
🔗 **additional product diagrams**

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Order Information

WaveLinx Lite Wallstations are accessories to the WaveLinx Lite (WLC) system which may be commissioned via the WaveLinx Lite mobile application. WaveLinx Lite devices are not currently compatible with the WaveLinx Wireless Area Controller.

Catalog Number

### Standard Wallstation Configurations

Catalog Number	Description
WWL3-W	WaveLinx Lite Wallstation, 3 Button, White
WWL3-RL-W	WaveLinx Lite Wallstation, 3 Button Raise / Lower, White
WWL5-RL-W	WaveLinx Lite Wallstation, 5 Button Raise / Lower, White
Notes WaveLinx Lite application required to customize programming for each button.	**Notes** Suitable for use with standard and Decora wallplates (not included). Complete wallstation - buttons are not field replaceable.

### Custom Engraved Wallstation Configurations

Catalog Number	Description
CUST-ENGRV-WWL3-W	WaveLinx Lite Wallstation, 3 Button, White, Custom Engraved
CUST-ENGRV-WWL3-RL-W	WaveLinx Lite Wallstation, 3 Button Raise / Lower, White, Custom Engraved
CUST-ENGRV-WWL5-RL-W	WaveLinx Lite Wallstation, 5 Button Raise / Lower, White, Custom Engraved
Notes WaveLinx Lite application required to customize programming for each button.	**Notes** Suitable for use with standard and Decora wallplates (not included). For custom engraving use the configurator tool within the FlashPro Program (CUST-ENGRV). Complete wallstation - buttons are not field replaceable.
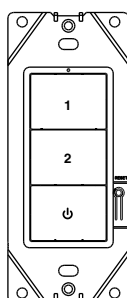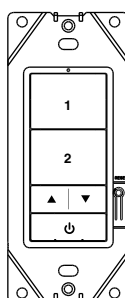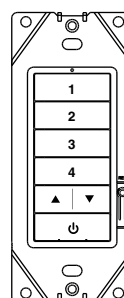
WWL3-W   WWL3-RL-W   WWL5-RL-W

Standard button engraving for each wallstation

Default engraving & light levels

Button 1	Scene 3 = 50%
Button 2	Scene 1 = 100%
Button 3	Scene 2 = 70%
Button 4	Scene 4 = 30%
Raise press*	Increase 1% (per press)
hold*	Increase 15% (per sec)
Lower press*	Decrease 1% (per press)
hold*	Decrease 15% (per sec)
Power*	Scene 0 = OFF

* - affects all zones in area

Raise / Lower / OFF buttons

Raise Area light level

Lowers Area light level

Turns all lights in area OFF

Button programming options via WaveLinx Lite Mobile Application

Scene Selection
Zone Level
Raise Level
Lower Level
No Action

Required Accessories

Download and register the WaveLinx Lite Mobile Application from either the Google Play or Apple Store. This mobile application can be used to form a lighting network - creating control zones, occupancy sets, setting occupancy or vacancy modes of operation, configuring daylighting, etc.

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Product Specifications

Key Features
- Easy installation and flexibility:
  - Scene selection
  - Zone control
  - Raise / Lower
  - OFF
- Suitable for standard single or multi-gang NEMA wall box (wall plate not included)
- Mains (120-277VAC) powered for simple new or retrofit installations
- Clean, elegant, and simple way to control lighting on your project
- Settings are programmable through software, no physical adjustments necessary

Mechanical
Size: 4.2"H x 1.8"W x 1.5"D (107mm x 45mm x 39mm)
Environment:
- **Operating temperature:** 32°F to 113°F (0°C to 45°C)
- **Storage temperature:** 32°F to 167°F (0°C to 75°C)
- **Relative humidity operating:** 5% to 95% non-condensing
- For indoor use only

Mounting: Standard decorator opening (wall plate not included)
Color: White

Electrical
Input power: 120-277VAC 50/60Hz (neutral wire required)
Input current: 5mA @120V and 5mA @277V

Hardware Specifications
Status Indicators:
- Single indicator LED
- LED functionality (active for 3 seconds after action)
  - Indication of wireless network join request
  - Indication of wireless network connection
  - Scene indication of operations

Button Configuration:
- 3 Button
- 3 Button with Raise / Lower
- 5 Button with Raise / Lower

Software Specifications
- Each button programmable to trigger Scene or Zone
- Default values when joined to a network (area) via WaveLinx Lite application
- Models available with dominant button 50% light level
- Secure firmware upgrade OTA from mobile application

Wireless Specifications
Radio: 2.4GHz
Standard: IEEE 802.15.1 - Bluetooth® 4.2 Low Energy (BLE)
Transmitter Power: +7dBm
Range: Device to device; 100ft (30m) LOS (best practice)
Note - metal wallplates will reduce wireless range

System Performance
Maximum number of nodes supported: Best practice of 40 devices, maximum of 50 devices per commissioned network

Standards/Ratings
- cULus Listed - Energy Management Equipment (UL916)
- FCC Part 15, Subpart B & C
- Meets latest ASHRAE Standard 90.1 requirements
- Meets latest IECC requirements
- Meets latest CEC Title 24 requirements
- NEMA WD-7 and NEMA 4 compliant
- CA Title 20 and Prop 65 compliant
- RoHS

Warranty
Five year warranty standard

Note: 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.

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System Architecture

This diagram shows the the main components and topology of the WaveLinx Lite (WLC) system. The WLC system uses standardized IEEE 802.15.1 (Bluetooth® 4.2 Low Energy) mesh technology for device to device communications without the requirement of a gateway. WLC integrated luminaires provide out-of-the-box functionality for independent operation when energized. With the use of the WLC mobile application with Trellix secure cloud portal access, groups of independent luminaires may be created and maintained with areas, control zones, and occupancy sets. WaveLinx Lite devices are not currently compatible with the WaveLinx Wireless Area Controller.

Trellix
Secure Portal
Site Initiation, Data Backup & Site Transfer

WaveLinx Lite
Mobile Application

WaveLinx Lite
Integrated Ambient

WaveLinx Lite
Tilemount Sensor Kit

WaveLinx Lite
Wallstation

WaveLinx Lite
Integrated Parking Garage

Overview

The wallstation is an integral part of the WaveLinx Lite system and is available in small and large button configurations. These wallstations are mains (120-277VAC) powered and provide wireless control of the lighting in an area. The wallstations operate on a wireless mesh network based on IEEE 802.15.1 (Bluetooth® 4.2 Low Energy) standards.

The wallstation mounts in a standard wallbox (single or multi-gang) suitable for use with standard wall plates (not included). Each wallstation is fully configurable to provide local control in each area. Each button is configured to control a lighting scene for an area and can be modified using the WaveLinx Lite Application.

The wallstation is a multi-scene, single area dimming wallstation which provides customized light level for an area. Wallstation models provide default sequence of operations including 50% light level, scene light levels between 30-70% as well as 100% and full off. Two wallstation configurations also include raise/lower buttons to manually adjust the light levels.

Installation

120-277 VAC - BLACK

NEUTRAL - WHITE

GROUND - GREEN

Wall plate not included