



Overview

The EVO Lite power pack operates one load of lighting or plug load. This power pack includes 12 configuration options, an on-board relay, and 0-10V dimming, integrated into one package for easy installation. The EVO Lite power pack is ideal for small offices or classrooms, made to meet energy code with daylight harvesting, plug load control, occupancy sensing, and vacancy sensing options. It has two RJ-45 ports for switches, sensors, and additional power packs. This convenient and easy to install power pack can be used as a single device or combined with other EVO Lite power packs, for multi zone operation.



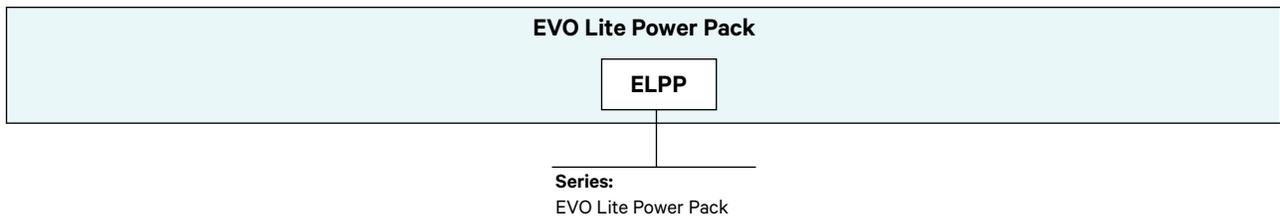
Features

- **Made in the USA, meets BABA Requirements**
- **Enclosure** suitable for plenum mounting
- **Plug-load** compatible
- **Stand alone relay pack with 0-10V dimming**
- **350mA** power provided for occupancy or vacancy sensors inputs
- **RJ45** connectors for EVO Lite switches and sensors

Warranty

Five-Year limited warranty

Ordering

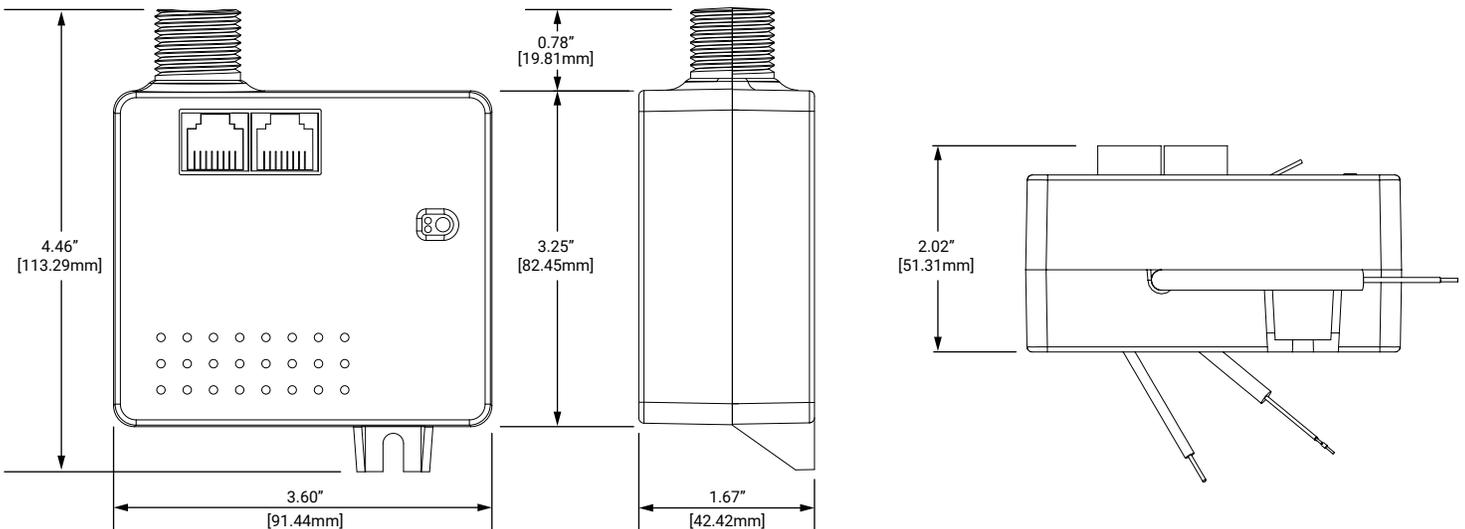


All ILC product configurations are built to be compliant with the Buy American Act of 1933 (BAA) or the Buy America Build America Act (BABA). BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

EVO Lite

Power Pack

Physical



Specifications

Physical:

- Enclosure: 3.199" x 3.603" x 1.672"
- 2 RJ45 connectors for connecting devices with CAT5 cable
- 3 wires for occupancy sensors exiting the enclosure into the plenum space
- Plastic enclosure with ½" molded electrical nipple and mounting bracket
- Molded plastic enclosure with a 5VA flammability rating
- 12 AWG wire leads for line/load/neutral power, and 20 AWG wire for all low voltage leads. All are rated for 300VAC. Low voltage wires provided with 600V heat shrink tubing

Operating Environment:

- Location: Interior space
- Operating Temperature: 0° to 50° C
- Humidity: 10 – 90% non-condensing
- Atmosphere: Non-explosive/corrosive
- Vibration: Stationary

Electrical:

- 120/277VAC @ 50/60Hz, 15VDC output
- Load Ratings:
 - 16A Electronic Ballast (LED)
 - 20A General Purpose (Plug Load)
 - 20A Tungsten (incandescent)
 - 20A Magnetic Ballast, ¼ HP @ 120VAC

- Incorporates a 50A relay, derated to load ratings.
- Optically isolated inputs
- 0-10V dimming, sink up to 100mA
- Push-button switch for setting configurations

Domestic Preferences:

Domestic preference options to meet BAA or BABA requirements. BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

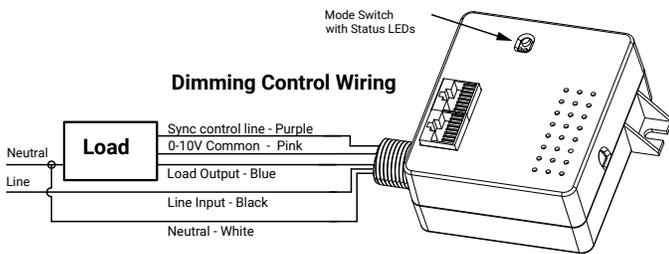
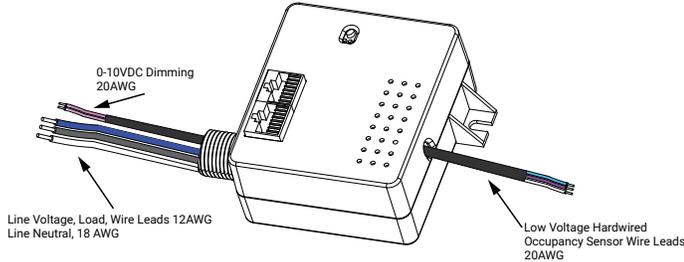
Certifications and Approvals:

- UL and CUL listed
- FCC Part 15
- Title 24
- ASHRAE compliant
- IECC compliant

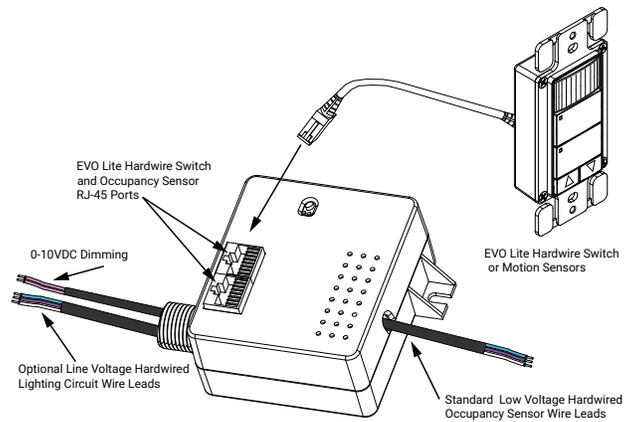
EVO Lite

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Wiring



Line Voltage Wiring



Class-2 Low Voltage Wiring

Wire Color Guide:

Line Voltage:
Neutral = White
Line Input = Black
Load Output = Blue

Class-2 Dimming:
0-10VDC Common (-) = Pink
0-10VDC Sync Control (+) = Purple

3-Wire Occupancy Sensor:

Occupancy Sensor
Red = (+) 15VDC
Black = (-) Common
White = Return Input

2-Wire Dimming:

0-10VDC Dimming control
Purple = (+) 10VDC
Pink = (-) Return
(Control Sink up to 100mA)

Power Pack Capacity Calculation

ELPP series power packs can supply power to several occupancy sensors and additional secondary relay packs.* Following the below formula ensures adequate power will be available.

$$[(\# \text{ of ELG3 Switches}) \times 7\text{mA}] + [(\# \text{ of ELCS Sensors}) \times 10\text{mA}] + [(\# \text{ of ELWS Switches}) \times 10\text{mA}] < [(\# \text{ of ELPP Power Pack}^*) \times 350\text{mA}]$$

Example combinations

ELG3 switches, 7mA		+	ELCS Ceiling Sensors, 10mA		+	ELWS Wall Switch, 10mA		=	TOTAL Power Required	<	Power Supplied by one ELPP
#	Power Required		#	Power Required		#	Power Required				
10	70mA	+	0	0	+	0	0	=	70mA	<	350mA
1	7mA	+	0	0	+	1	10mA	=	17mA	<	350mA
0	0	+	4	40mA	+	0	0	=	40mA	<	350mA
3	21mA	+	3	30mA	+	0	0	=	51mA	<	350mA

*Inline power packs add additional 350mA to capacity

EVO Lite

Power Pack

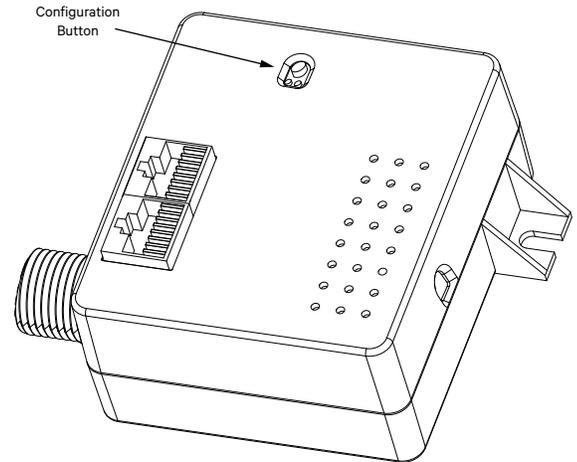
Display Configuration / Test Mode

- Tap config button
 - Red or blue LED will flash the configuration number
 - If the red LED flashes, then the power pack is configured as power pack A
 - If the blue LED flashes, then the power pack is configured as power pack B

Change Configuration

- Hold the config button for 4 seconds to enter set configuration mode
 - Either the red or blue LED will begin to flash fast depending on the current configuration
 - Red flashing – Currently programmed as power pack A
 - Blue flashing – Currently programmed as power pack B
 - Continue to hold the config button until the desired LED is flashing
 - Red to configure as power pack A
 - Blue to configure as power pack B
- Release the config button and the red or blue LED will go solid on
- Tap the config button 1 to 11 times to select a configuration type
- After the config button is not tapped for 4 seconds, the configuration is saved
- The red or blue LED will flash the configuration number for validation

Configuration	Description	2nd Power Pack
1	1-Zone, 1-Button, Vacancy (Plug load)	Occ-On/Off, Plug load
2	2-Zone 3-Button, Vacancy	(2nd Zone)
3	1-Zone, 1-Button, Occupancy (On to 50%)	Duplicate/Plug load
4	2-Zone, 3-Button, Occupancy (On to 50%)	(2nd Zone)
5	1-Zone, 1-Button, On High/Low (100%/50%), Vacancy	Duplicate/Plug load
6	1-Zone, 2-Button (On/Off), Occupancy	Duplicate/Plug load
7	1-Zone, 2-Button (On/Off), Vacancy	Duplicate/Plug load
8	1-Zone, 2 Button (On-50%/Off), Occupancy	Duplicate/Plug load
9	1-Zone, 2 Button (On-100%/Off), Occupancy	Duplicate/Plug load
10	1-Zone, 2-Button, Vacancy	Plug load
11	1-Zone, 1-Button100%, Occupancy On to 100%/Off to 50%	Duplicate/Plug load
12	1-Zone, 1-Button100%, Occupancy On to 100%/Off to 20%	Duplicate/Plug load



NOTE: Typical wiring scenarios can be found in EVO Lite Design Guide

EVO Lite System

This diagram shows the the main components and topology of the Intelligent Lighting Controls EVO Lite system. The EVO Lite devices use CAT5 cable for device to device communications. See EVO Lite design guide for typical wiring data.

