

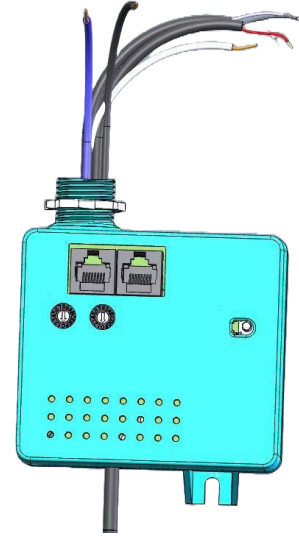
EVO Lite

Power Pack



Overview

The EVO Lite power pack operates one load of lighting or plug load. This power pack includes 9 configuration options, plus 14 legacy configurations, 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 RJ45 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.



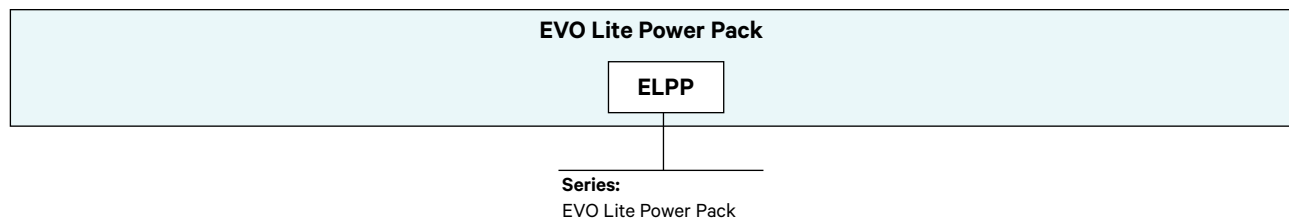
Features

- **Made in the USA, meets BAA and 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 and switch stations
- **RJ45** connectors for EVO Lite switches and sensors

Warranty

Five-Year limited warranty

Ordering

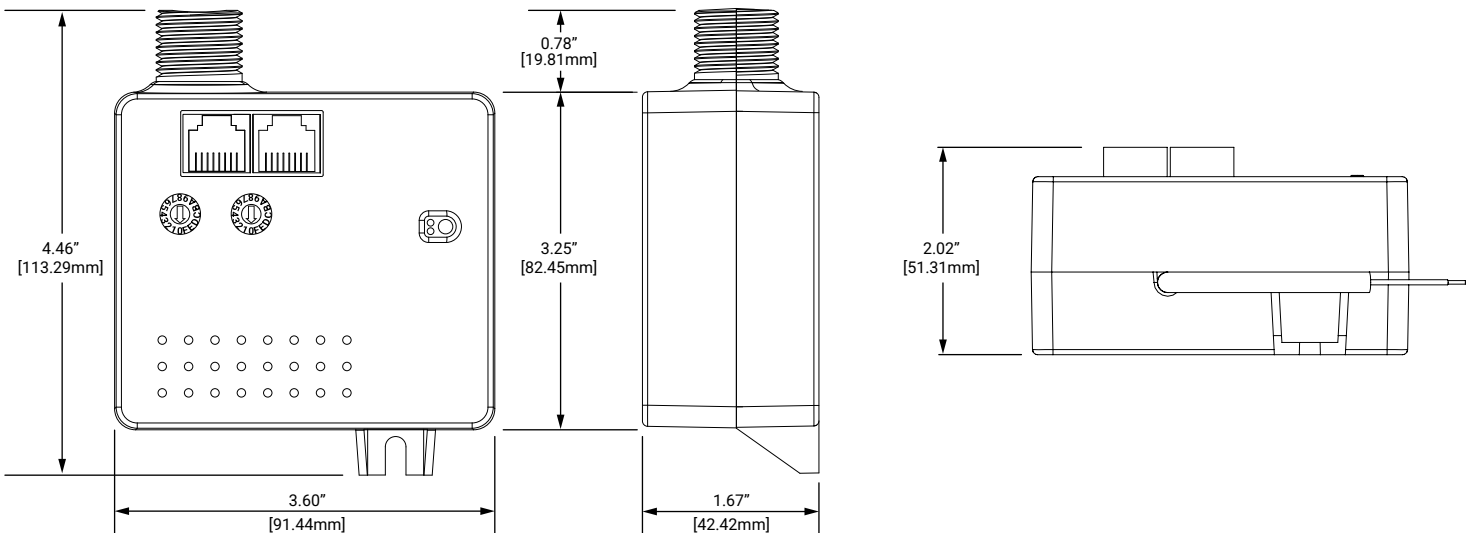


All ILC product configurations are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA).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

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Physical



Specifications

Physical:

- Enclosure: 3.199" x 3.603" x 1.672"
- 2 RJ45 connectors for connecting devices with CAT-5 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
- 18 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
- 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
- Address dials for setting configurations

Domestic Preferences:

Domestic preference options to meet BAA or BABA requirements. BABA is the minimum Government compliance requirement for the Build America Buy 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.

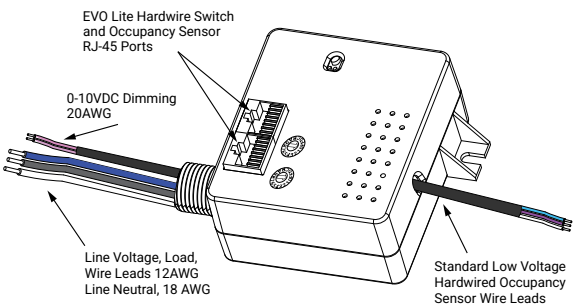
Certifications and Approvals:

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

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Wiring

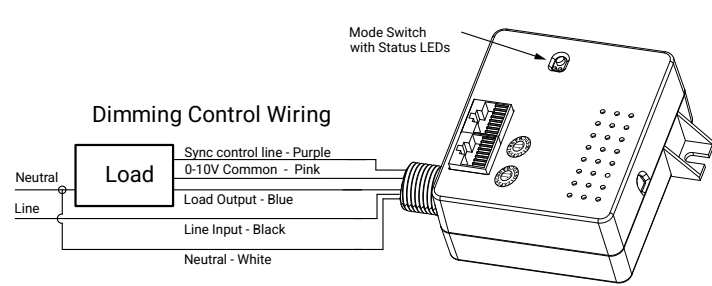


EVO Lite Hardwire Switch and Occupancy Sensor RJ-45 Ports

0-10VDC Dimming 20AWG

Line Voltage, Load, Wire Leads 12AWG
Line Neutral, 18 AWG

Standard Low Voltage Hardwired Occupancy Sensor Wire Leads

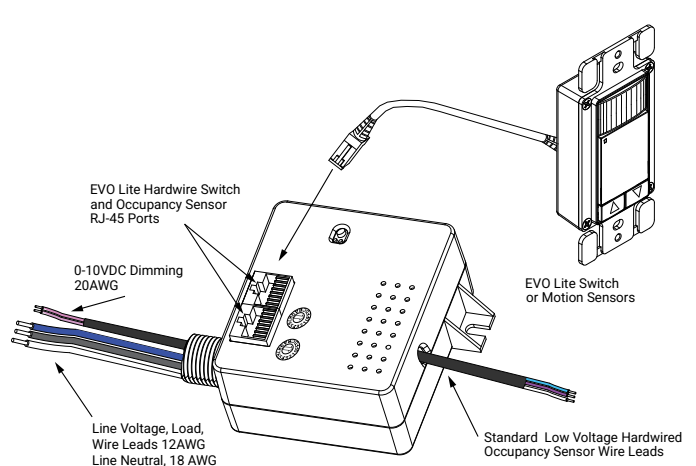


Dimming Control Wiring

Mode Switch with Status LEDs

Load

Sync control line - Purple
0-10V Common - Pink
Load Output - Blue
Line Input - Black
Neutral - White



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Line Neutral, 18 AWG

Standard Low Voltage Hardwired Occupancy Sensor Wire Leads

EVO Lite Switch or Motion Sensors

Wire Color	Function
White	Neutral
Black	Line Input
Blue	Load Output

Wire Color	Function
Pink	0-10VDC Common (-)
Purple	0-10VDC Sync Control (+)

NOTE: Typical wiring scenarios can be found in EVO Lite design guide

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

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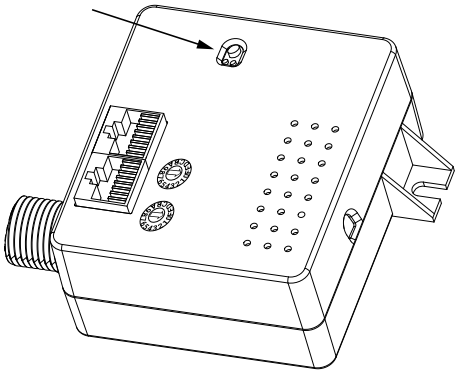
Display Configuration / Test Mode

- Select Application function using the left rotary dial
- Select the Zone function using the right rotary dial
- If operating in Legacy mode, set both dials to “0” and refer to Design Guide for configuration listings

Change Configuration

SW1 - Function		SW2 - Function	
Value	Function	Value	Function
0	Legacy	0	Legacy
1	Vacancy	1	Zone 1 - D2O disabled
2	Occupancy on to 50%	2	Zone 2 - D2O disabled
3	Occupancy on to 100%	3	Plugload (Occ only) - D2O disabled
4	Occupancy on to 100% / Off to 50%	4	Plugload + 10 min (Occ only) - D2O disabled
5	Occupancy on to 100% / Off to 20% / Off after 20 Minute Delay	5	
6	Occupancy on to last dim level	6	
7	Occupancy on to 50% / Button press to 100% / 2nd button press to Off	7	
8	Occupancy on to Custom Dim Level* (Set when config selected)	8	
9	Occupancy on to 100% / Custom Dim Level* (Set when config selected)	9	
A		A	Zone 1 - D2O enabled (off at 5% on at 7%)
B		B	Zone 2 - D2O enabled (off at 5% on at 7%)
C		C	Plugload (Occ only) - D2O enabled
D		D	Plugload + 10 min (Occ only) - D2O enabled
E		E	
F		F	

*Custom level captured when configuration is set, can additionally hold R/L for 10s to recapture



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 CAT-5 cable for device to device communications. See EVO Lite design guide for typical wiring data.

