Catalog Number:	Date:	Project:

intelligent lighting controls

www.ilc-usa.com
952.829.1900

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

EVO Lite Power Pack

ELPP

Series:
EVO Lite Power Pack

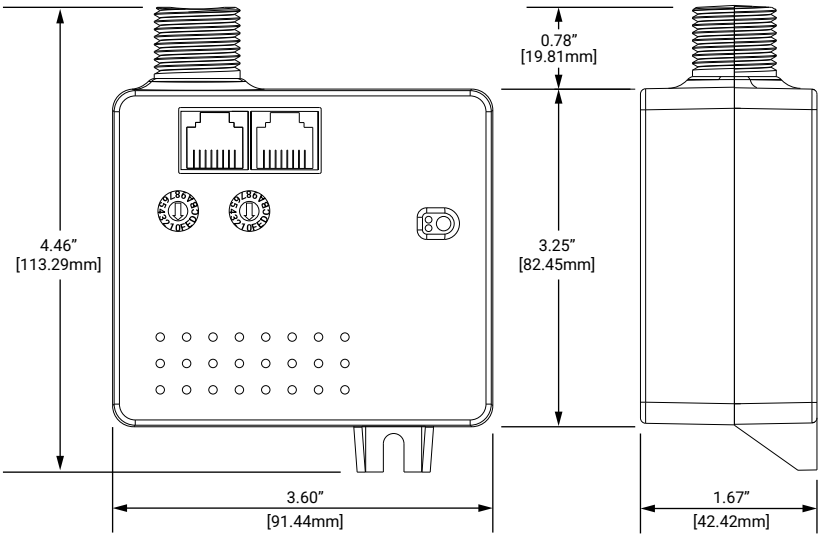
All ILC product configurations are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA).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

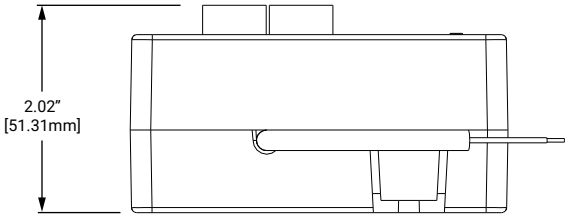
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Physical





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

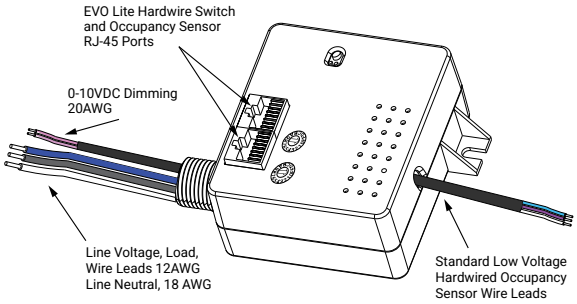
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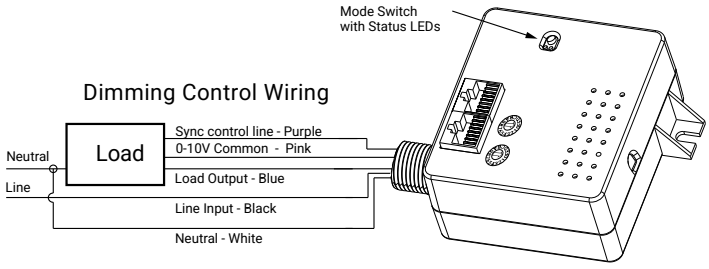
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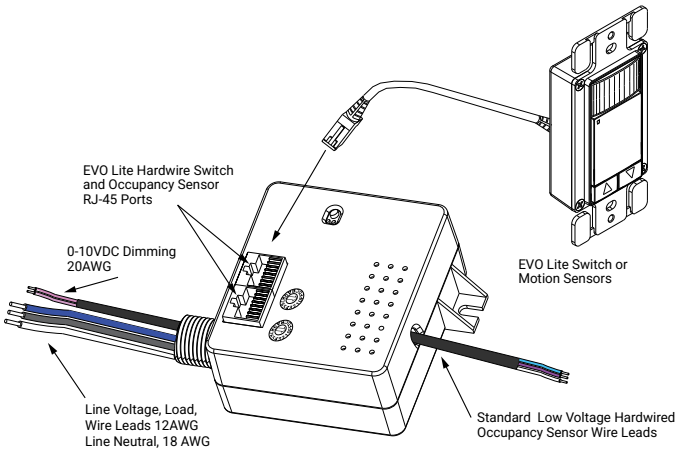
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Wiring







Line Voltage Wiring

Wire Color	Function
White	Neutral
Black	Line Input
Blue	Load Output

Class-2 Dimming

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.

[(# of ELG3 Switches**) x7mA] + [(#** of ELCS Sensors**) x10mA] + [(#** of ELWS Switches**) x10mA] < [(#** of ELPP Power Pack*)**x350mA]**

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

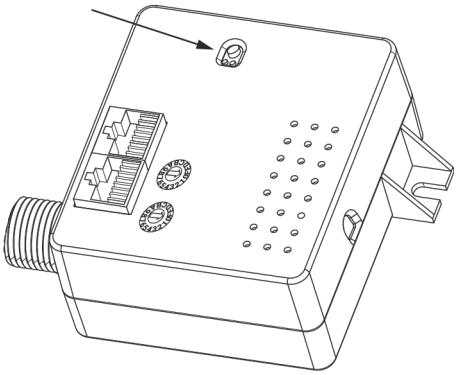
- Select Application function using the left rotary dial
- Select the Zone function using the right rotary dial
- If operating in Legacy mode, set both dials to “0” and refer to Design Guide for configuration listings

Change Configuration

SW1 - Function	
Value	Function
0	Legacy
1	Vacancy
2	Occupancy on to 50%
3	Occupancy on to 100%
4	Occupancy on to 100% / Off to 50%
5	Occupancy on to 100% / Off to 20% / Off after 20 Minute Delay
6	Occupancy on to last dim level
7	Occupancy on to 50% / Button press to 100% / 2nd button press to Off
8	Occupancy on to Custom Dim Level* (Set when config selected)
9	Occupancy on to 100% / Custom Dim Level* (Set when config selected)
A	
B	
C	
D	
E	
F	

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

SW2 - Function	
Value	Function
0	Legacy
1	Zone 1 - Dim to Off disabled
2	Zone 2 - Dim to Off disabled
3	Plugload (Occ only) - Dim to Off disabled
4	Plugload + 10 min (Occ only) - Dim to Off disabled
5	
6	
7	
8	
9	
A	Zone 1 - Dim to Off enabled (off at 5% on at 7%)
B	Zone 2 - Dim to Off enabled (off at 5% on at 7%)
C	Plugload (Occ only) - Dim to Off enabled
D	Plugload + 10 min (Occ only) - Dim to Off enabled
E	
F	



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.

