intelligent
lighting controls

| EVO Lite | Power Pack |

BABA

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: one to wire to switches and additional power packs, and another for 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.
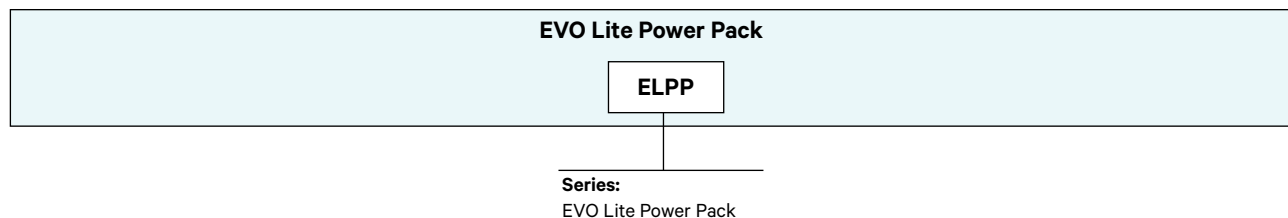
Features

- **Made in the USA, meets BABA Requirements**
- **Enclosure** suitable for plenum mounting
- **RJ45 Outputs** for up to 2 R20 relays
- **Plug-load** compatible
- **Stand alone relay pack with 0-10V dimming**
- **350mA** power provided for occupancy or vacancy sensors inputs
- **RJ45** connectors for networking and CAT-5 devices

Warranty

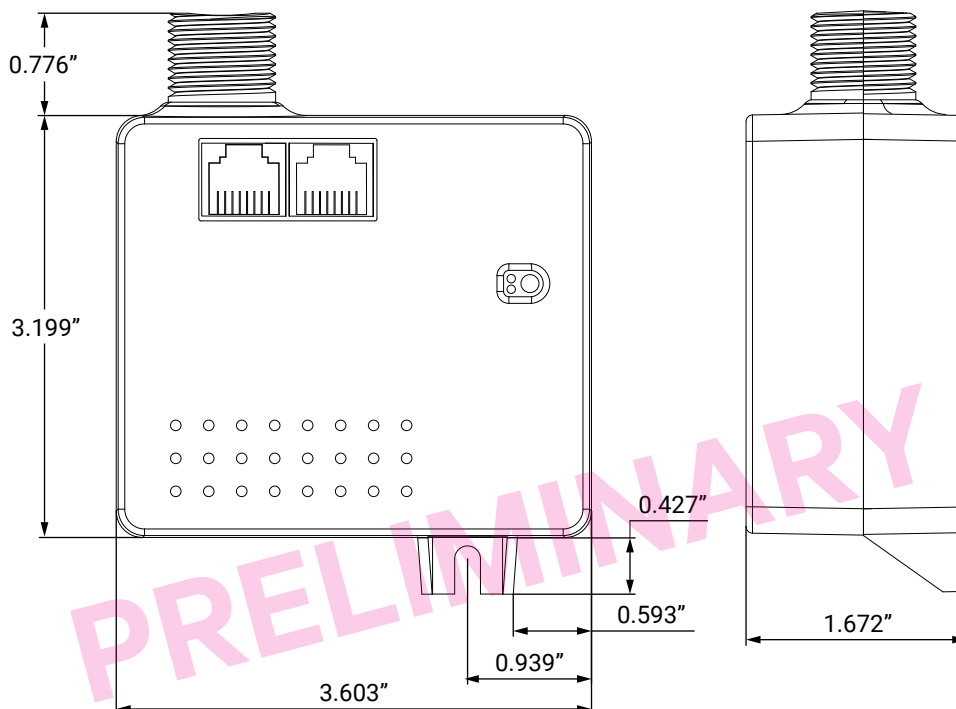Five-Year limited warranty

Ordering

EVO Lite Power Pack
ELPP

Series:
EVO Lite Power Pack

COOPER
Lighting Solutions
a signify business

intelligent
lighting controls

EVO Lite	Power Pack

Physical

0.776"

3.199"

0.427"

0.593"

0.939"

3.603"

1.672"

PRELIMINARY

Specifications

Physical:
- Enclosure: 3.199" x 3.603" x 1.672"
- 2 RJ45 connectors for connecting devices with CAT5 cable
- Devices are hardwired using 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 LV leads. All are rated for 300VAC. LV 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
- 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 analyze under domestic preference requirements.
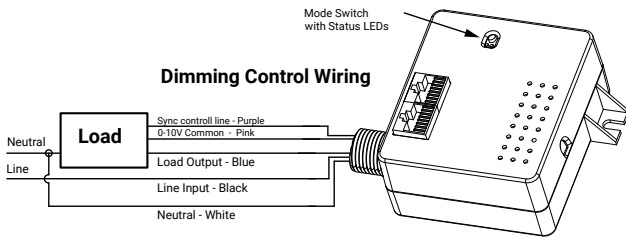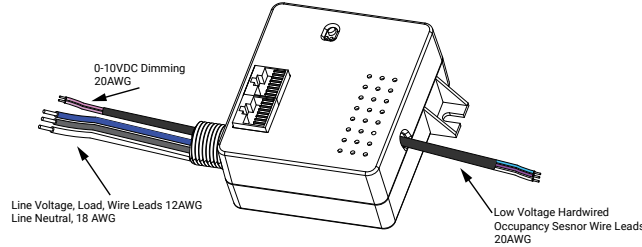
Certifications and Approvals:
- UL and CUL listed
- FCC Part 15
- Title 24
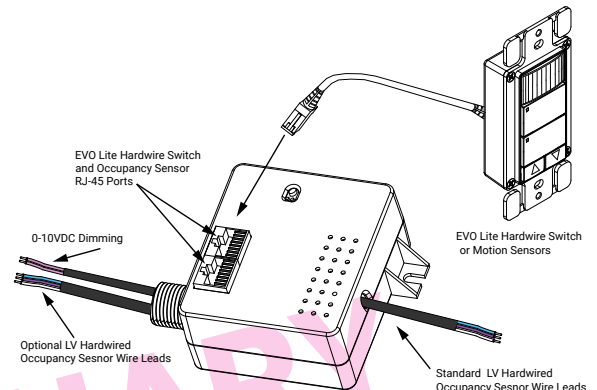- ASHRAE compliant
- IECC compliant

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Wiring

0-10VDC Dimming 20AWG

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

Low Voltage Hardwired Occupancy Sesnor Wire Leads 20AWG

Mode Switch with Status LEDs

Dimming Control Wiring

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

Neutral
Line
Load

Line Voltage Wiring

EVO Lite Hardwire Switch and Occupancy Sensor RJ-45 Ports

0-10VDC Dimming

EVO Lite Hardwire Switch or Motion Sensors

Optional LV Hardwired Occupancy Sesnor Wire Leads

Standard LV Hardwired Occupancy Sesnor Wire Leads

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

EVO Lite Hardwire Switch/Occupancy Sensor RJ-45 Pin-out:

CAT-5	Hardwire Switch
Orange/White	Pin 1 = Input 3
Orange	Pin 2 = Input 4
Green/White	Pin 3 = Sensor Return Input 1
Blue	Pin 4 = Input 5
Blue/White	Pin 5 = Input 6
Green	Pin 6 = Input 2
Brown/White	Pin 7 = (+) 15VDC (350mA)
Brown	Pin 8 = (-) Common

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.

[(# of ELG3 Switches) x5mA] + [(# of ELCS Sensors) x10mA] + [(# of ELWS Switches) x70mA] < [(# of ELPP Power Pack*) x80mA]

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	50mA	+	0	0	+	0	0	=	50mA	<	350mA
1	5mA	+	0	0	+	1	70mA	=	75mA	<	350mA
0	0	+	4	40mA	+	0	0	=	40mA	<	350mA
3	15mA	+	3	30mA	+	0	0	=	45mA	<	350mA

*Inline power packs add additional 350mA to capacity