

GL-EXP-DIMFLV-CN

Crestron Green Light® 0-10V Dimmer Expansion Module, Cresnet®

- > Single-channel 0-10 Volt lighting dimmer
- > Crestron® system integration via Cresnet®
- > Supports 0-10V dimmable fluorescent ballasts and LED drivers
- > Also supports on/off switching of non-dimmable lighting and motor loads
- > Rated 16 Amps at 100-277 Volts AC
- > Built-in air gap relay
- > Closure-activated override mode
- > UL® 924 listed for emergency lighting control
- > Surface mountable NEMA Type 1 enclosure
- > Mounts on a wall panel or above a suspended ceiling
- > UL 2043 listed for installation in an environmental air handling space

The Crestron Green Light® GL-EXP Series delivers a family of professional lighting control modules for Cresnet® or DALI® based lighting systems. Designed for easy installation on a wall or above a suspended ceiling, these modules offer a perfect solution for adding extra lighting zones to any system without requiring an additional lighting cabinet.

The GL-EXP-DIMFLV-CN is a single-channel dimmer expansion module designed to control 0-10 Volt dimmable fluorescent ballasts and LED drivers. It can also be used to switch non-dimmable lighting and motor loads.

Cresnet® Communications

The GL-EXP-DIMFLV-CN interfaces with a Crestron® control system via Cresnet. Cresnet is a simple 4-wire network bus that provides the communications backbone for a system of Crestron lighting dimmers, switches, keypads, shades, thermostats, and other devices.

Emergency Lighting Control

The GL-EXP-DIMFLV-CN is UL® 924 listed for use in controlling an emergency lighting load. In the event of a power failure, a contact closure from a power loss sensor (Crestron [GLS-PLS-120/277](#), sold separately) activates the override mode in the GL-EXP-DIMFLV-CN to turn on the lighting load if it is off (assuming line power is supplied by a backup power source). The override dimming level can be preset to any value when commissioning the lighting system, so even if the load is already on prior to a power failure, it will change to the preset level when override mode is activated.

Plenum Rated NEMA Enclosure

The GL-EXP-DIMFLV-CN is designed to be mounted to a vertical surface and is UL 2043 compliant to allow for installation in an environmental air-handling space above a suspended ceiling. Conduit knockouts are provided on the bottom and lower sides of the unit. All connections are made via screw terminals behind the front cover.



SPECIFICATIONS

Load Control

Dimmer Channels: 1

Load Rating: 16 Amps

Line Voltage: 100-277 Volts AC, 50/60 Hz

Dimmable Load Types: 0-10 Volt fluorescent ballasts or LED drivers (4-wire)

Switched Load Types: LED, incandescent, fluorescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, high-intensity discharge (HID), motor

Communications

Cresnet: Cresnet slave mode

Connections

NEUT: (3) Captive screw terminals;
Neutral connections for feed and load;
24 to 10 AWG (0.25 to 4.0 mm²) wire size

LINE: (2) Captive screw terminals;
Line power feed input and pass-through;
24 to 10 AWG (0.25 to 4.0 mm²) wire size

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SW: (1) Captive screw terminal;
Switched load output;
24 to 10 AWG (0.25 to 4.0 mm²) wire size

0-10V: (2) Captive screw terminals;
0-10 Volt dimming control output;
70 mA current rating;
26 to 14 AWG (0.14 to 1.5 mm²) wire size;
For use with Class 1 or Class 2 wiring

OVERRIDE: (2) Captive screw terminals;
Low-voltage contact closure sensing input;
Activates override mode when a closure is sensed;
26 to 14 AWG (0.14 to 1.5 mm²) wire size;
For use with Class 2 wiring only

CRESNET: (4) Captive screw terminals;
Cresnet slave port (communications only, does not use Cresnet power);
26 to 14 AWG (0.14 to 1.5 mm²) wire size;
For use with Class 2 wiring only

Ground: (1) 3-terminal grounding block

Controls & Indicators

PWR: (1) Green LED, indicates line power is applied to either LINE terminal

NET: (1) Yellow LED, indicates Cresnet network communication

ERR: (1) Red LED, indicates a variety of error conditions via blinking patterns (refer to the installation guide)

ON/OFF: (1) Pushbutton and (1) red LED, pushbutton toggles the load output on and off (press and hold to cycle the dimming level up and down), LED indicates the load output is energized

RESET: (1) Pushbutton, initiates hardware reset

Environmental

Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 90% RH (non-condensing)

Construction

Enclosure: NEMA Type 1, galvanized steel with gray matte powder coated removable front cover panel, extruded aluminum heat sink on rear, (2) integral mounting flanges, (4) 1/2" or 3/4" conduit knockouts on bottom and lower left & right sides

Mounting: Surface mount, must be oriented upright and mounted to a vertical surface with 6 inches (153 mm) minimum spacing above and below for proper ventilation and heat dissipation

Dimensions

Height: 8.78 in (223 mm)
Width: 6.39 in (163 mm)
Depth: 3.16 in (81 mm)

Weight

3.43 lb (1.56 kg)

Compliance

C(UL)US, UL 924, UL 2043, FCC Part 15 Class A commercial use

MODELS & ACCESSORIES

Available Models

GL-EXP-DIMFLV-CN: Crestron Green Light® 0-10V Dimmer Expansion Module, Cresnet®

Available Accessories

CRESNET: Cresnet® Control Cable

GLS-PLS-120/277: Power Loss Sensor

Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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