

# GL-EXP-SW-CN

## Crestron Green Light® Switch Expansion Module, Cresnet®

- > Single-channel lighting switch
- > Crestron® system integration via Cresnet®
- > Supports on/off switching of LED, incandescent, fluorescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, and high-intensity discharge lighting loads
- > Also supports on/off switching of 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-SW-CN is a single-channel switch expansion module designed to control a wide range of non-dimmable lighting loads including LED, incandescent, fluorescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, and high-intensity discharge. It can also be used to switch motor loads.

### Cresnet® Communications

The GL-EXP-SW-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-SW-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-SW-CN to turn on the lighting load if it is off (assuming line power is supplied by a backup power source).

### Plenum Rated NEMA Enclosure

The GL-EXP-SW-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

**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 mm<sup>2</sup>) wire size

**LINE:** (2) Captive screw terminals;  
Line power feed input and pass-through;  
24 to 10 AWG (0.25 to 4.0 mm<sup>2</sup>) wire size

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**SW:** (1) Captive screw terminal;  
Switched load output;  
24 to 10 AWG (0.25 to 4.0 mm<sup>2</sup>) wire size

**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 mm<sup>2</sup>) 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 mm<sup>2</sup>) 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, 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-SW-CN:** Crestron Green Light® Switch 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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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