

CLX-2DIMFLV8-277

8 Channel 0-10V Dimmer Module, 2 Feeds, 277V

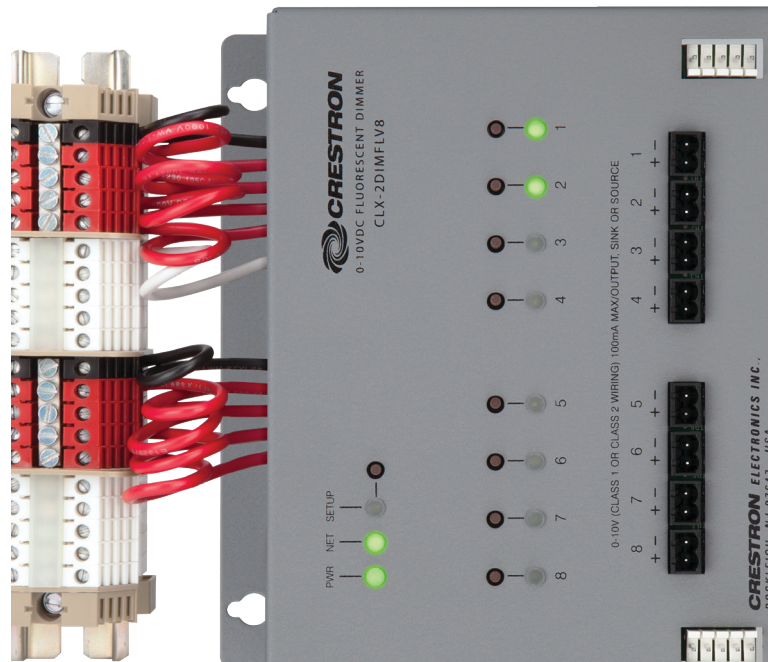
- > Eight-channel 0-10V dimmer module for commercial lighting applications
- > Installs in a Crestron® CAEN enclosure
- > Supports 0-10V dimmable fluorescent ballasts and LED drivers
- > Also supports on/off switching of non-dimmable lighting loads
- > Single or dual feeds — two four-channel dimmers in one module
- > Rated 16 Amps per channel, 32 Amps total (using two 20 Amp feeds), at 277 Volts AC
- > Customizable dimming curves via software
- > Arcless switching
- > Built-in air gap relay per channel
- > Closure-activated override mode
- > UL® 924 and CSA® C22.2 No. 141-15 listed for emergency lighting control
- > Crestron system integration via Cresnet®
- > Easy termination using a CLT-2DIMFLV8-277 terminal block (sold separately)
- > CEC Title 24 2013 compliant

The Crestron® CLX-2DIMFLV8-277 is an eight-channel, two-feed dimmer module designed for 277V lighting system applications. It installs in a **CAEN** enclosure and provides control of 0-10 Volt dimmable fluorescent ballasts and LED drivers. It can also be used to switch non-dimmable lighting loads. Dual feed capability provides two independent four-channel dimmers in one module space. Each output channel is rated for 16 Amps, with a total module rating of 32 Amps when fed from two separate 20 Amp feeds.

Centralized Lighting Cabinet Installation

Crestron CLX series lighting control modules are designed to be installed in a CAEN wall mount enclosure. Available in a variety of sizes, CAEN enclosures provide a scalable, high-density centralized lighting control solution for any-sized residence. A selection of CLX module types is offered to accommodate a wide range of load types and system configurations.

Termination of high-voltage wiring to the CLX-2DIMFLV8-277 module is facilitated using a **CLT-2DIMFLV8-277** terminal block, which is sold separately to enable termination of the wiring prior to installing the module. This terminal block mounts beside the module within the enclosure. The 0-10V control wires terminate to the front of the module via detachable terminal blocks. Other low-voltage control signals are bussed between each of the modules within an enclosure via a simple 5-wire link (interconnect jumpers included), which terminates to a single terminal block (model **CAEN-BLOCK**, sold separately) at the bottom of the enclosure.



Shown with CLT-2DIMFLV8-277 terminal block (sold separately)

Cresnet® Communications

The CLX-2DIMFLV8-277 interfaces with a Crestron **control system** (a.k.a., control processor or automation processor) 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 CLX-2DIMFLV8-277 is UL® 924 and CSA® C22.2 No. 141-15 listed for use in controlling emergency lighting loads. 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 CLX-2DIMFLV8-277 to turn on each designated 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.

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SPECIFICATIONS

Load Control

Dimmer Channels: 8
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, high-intensity discharge (HID)
Per Channel Load Rating: 16 Amps
Per Group Load Rating: Group 1 (Channels 1-4): 16 Amps;
Group 2 (Channels 5-8): 16 Amps
Module Total Load Rating: 32 Amps^[1]
Line/Load Voltage: 277 Volts AC, 50/60 Hz; requires one or two single-phase feeds (may be same or different phases)
0-10V Output: 0-10 Volts DC, 100 mA maximum per channel, sink or source
SCCR: 30 kA

Connections

Via Terminal Block (sold separately):

- LINE 1 – 2:** (2) Screw terminals, black, line power feed inputs (per group)
- SW 1 – 8:** (8) Screw terminals, red, switched load outputs (per channel)
- N IN 1 – 2:** (2) Screw terminals, white, line power feed neutrals (per group)
- N OUT 1 – 8:** (8) Screw terminals, white, load neutrals (per channel)

Note: Each terminal accepts one 14-10 AWG wire.

1 – 8: (8) 2-pin detachable terminal blocks;
0-10 Volt dimming control outputs;
26 to 12 AWG (0.14 to 2.5 mm²) wire size;
For use with Class 1 or Class 2 wiring

Module Interconnect: (2) 5-pin 0.156 inch headers;
Cresnet/Override interconnect ports;
Each connects to the adjacent module using the interconnect jumper provided; connects to a **CAEN-BLOCK** (sold separately) when installed in the lowest position within the enclosure

Controls & Indicators

PWR: (1) Green LED, indicates line power is applied to the LINE 1 terminal
NET: (1) Yellow LED, indicates Cresnet communication with the control system
SETUP: (1) Pushbutton and (1) red LED for Cresnet setup using TSID (Touch Settable ID)
1 – 8: (8) Pushbuttons and (8) red LEDs, each pushbutton toggles the corresponding channel on and off (press and hold to cycle the dimming level up and down), each LED indicates the corresponding load output is energized

Environmental

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

Heat Dissipation: 45 BTU/hr

Enclosure

Gray metal, surface mount module with (2) integral mounting flanges; Occupies 1 module space in a **CAEN** enclosure

Dimensions

Height: 7.53 in (192 mm)
Width: 6.91 in (176 mm)
Depth: 3.32 in (85 mm)

Weight

3.15 lb (1.43 kg)

Compliance

UL Listed for US & Canada, IC, UL 508, UL 924, CSA C22.2 No. 14, CSA C22.2 No. 141-15, CEC Title 24 2013, FCC Part 15 Class B digital device

MODELS & ACCESSORIES

Available Models

CLX-2DIMFLV8-277: 8 Channel 0-10V Dimmer Module, 2 Feeds, 277V

Available Accessories

CLT-2DIMFLV8-277: Terminal Block for CLX-2DIMFLV8-277
CAEN Series: Automation Enclosures

Notes:

- When connecting to a third-party arc fault breaker, the total load should not exceed 1000 Watts per feed.

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 <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, visit <https://www.crestron.com/opensource>.

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