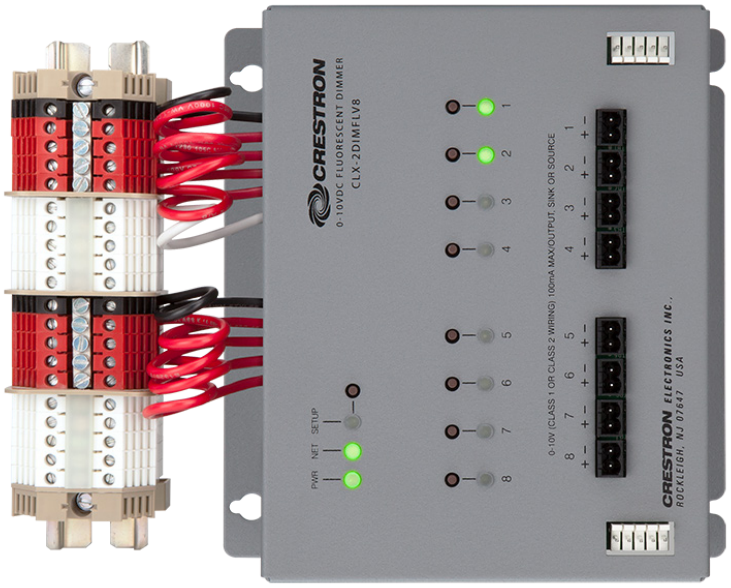
GL-CAEN-2DIMFLV8 KIT

8 Channel 0-10V Dimmer Module w/Terminal Block, 2 Feeds, 120V

- *Eight-channel 0-10V dimmer module for commercial lighting applications*
- *Installs in a Crestron® CAEN or CAEN-MLO 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 120 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®*
- *Includes terminal block for high-voltage wiring*
- *CEC Title 24 2013 compliant*



The Crestron® GL-CAEN-2DIMFLV8 is an eight-channel, two-feed dimmer module designed for 120V commercial lighting system applications. It installs in a CAEN or CAEN-MLO 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.

Emergency Lighting Control

The GL-CAEN-2DIMFLV8 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 GL-CAEN-2DIMFLV8 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.

Centralized Lighting Cabinet Installation

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

Each lighting control module, including the GL-CAEN-2DIMFLV8, ships complete with a DIN rail terminal block for termination of the high-voltage feed and load wiring. 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.

Cresnet® Communications

The GL-CAEN-2DIMFLV8 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.

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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: 120 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

Connections

Via Terminal Block (included):
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 mm^2) 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 or CAEN-MLO enclosure

Dimensions

Height: 7.53 in (192 mm)
Width: 6.91 in (176 mm)
Depth: 3.32 in (85 mm)
Dimensions do not include the terminal block

Weight

3.15 lbs (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

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Available Accessories

CAEN: Automation Enclosures
CAEN-MLO: Automation Enclosures with Integrated Breaker Panel

Notes:

1. 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 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, visit www.crestron.com/opensource.

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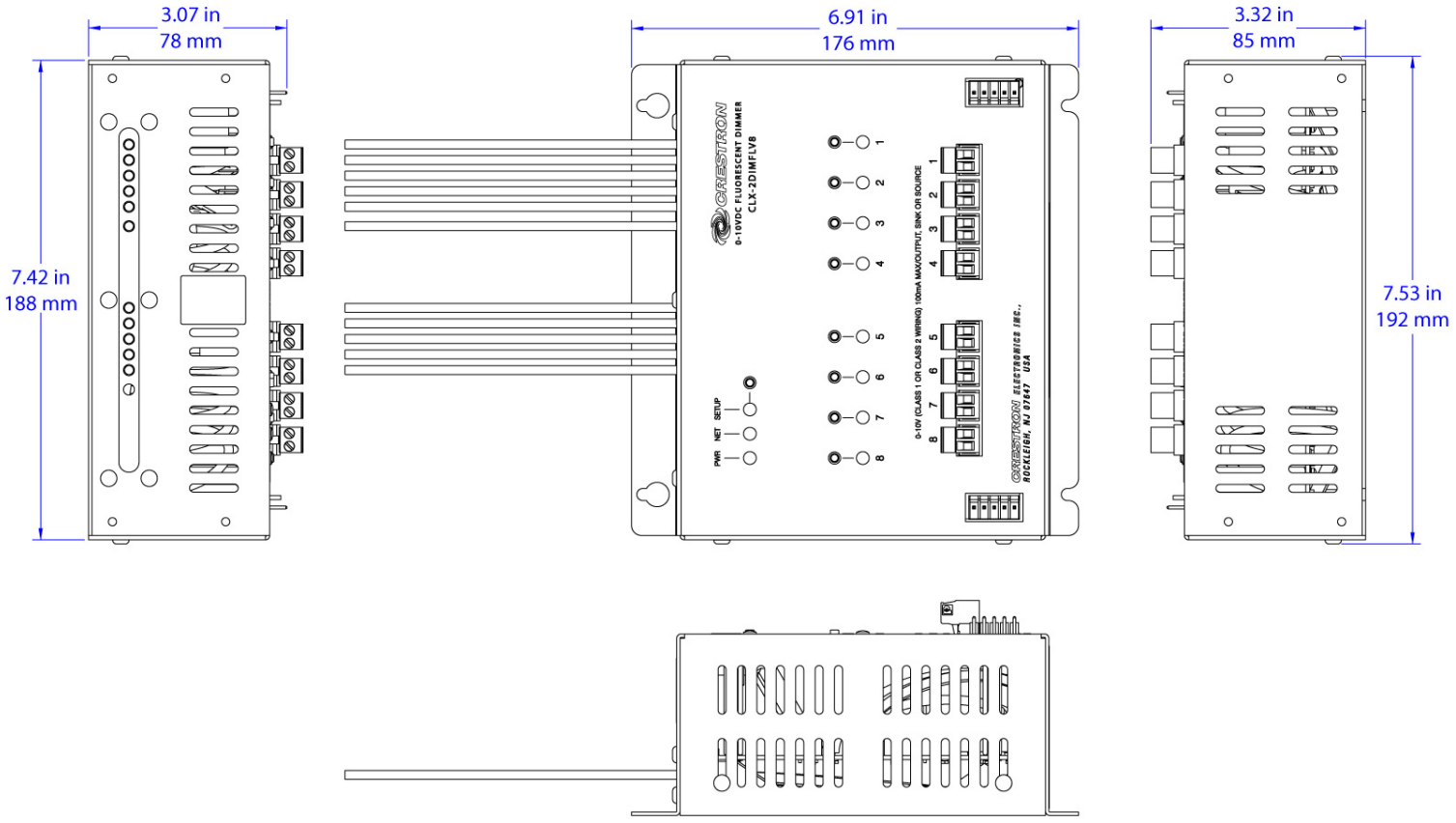

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Specifications subject to change without notice. Revised 08/10/17