

CLXI-2DIMU8

8 Channel Universal Dimmer Module, 2 Feeds, 230V

- > 8 channels of dimming for both forward- and reverse-phase modes
- > Two independent 4 channel dimmers in a single module
- > Constant Power dimming technology and zero-cross filtering to reduce lamp flickering
- > Auto-load detection mode
- > Custom dimming curve creatable in Crestron Toolbox™
- > Extreme stability in noisy environments
- > Dual or single 230 Volt feed
- > Air-gap relays on every channel output
- > Override preset capability
- > Convection cooled
- > Occupies 1 module space in a CAEN or CAENIB automation enclosure
- > Easy termination using a CLTI-2DIMU8 terminal block

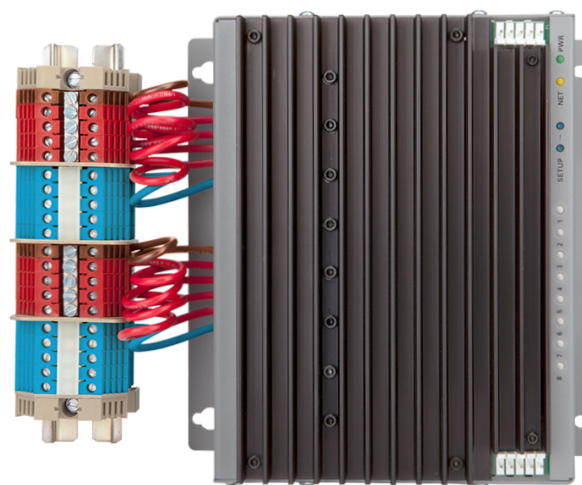
The CLXI-2DIMU8 lighting control module provides 8 channels of technologically advanced universal dimming for 230 Volt LED, incandescent, magnetic low-voltage, electronic low-voltage, and 2-wire dimmable fluorescent lighting loads. With unparalleled Constant Power dimming technology, this universal dimmer automatically selects forward- or reverse-phase control based on each channel's load when in Auto-Load Detection mode. The CLXI-2DIMU8 is composed of two independent 4-channel dimmers; each channel is rated for 2.5 Amps (575 Watts), with a total module rating of 20 Amps (4600 Watts) when fed from two separate feeds. This unit automatically protects itself from overcurrent, over voltage, and over temperature for a long and reliable lifespan. Air-gap relays on every channel output allow individual circuits to be serviced without disabling the entire module.

Flexible Lighting System Designs

Crestron's CLXI-2DIMU8 Universal Dimmer Module eliminates the need to specify different dimmers for different fixtures and loads, offering unparalleled flexibility when designing lighting systems. This means less wiring, fewer components, and less time testing and commissioning lighting systems. Utilize [Crestron Toolbox™](#) to create custom dimming curves for a smooth dimming experience in any space.

Reliable Performance

The patent-pending, innovative Constant Power technology effectively reduces flicker and provides extreme stability in noisy environments. This cutting-edge technology quickly adjusts the CLXI-2DIMU8 dimmer's on-time response to changes in input voltage so that power is constantly and consistently delivered to the load. Voltage sag and peak overshoot no longer cause changes in load output, ensuring reliable lighting performance. To further reduce lamp flicker, the CLXI-2DIMU8 features Crestron's proprietary zero-cross filter technology for superior immunity to noise on the power line. Low-maintenance convection cooling on the



Shown with CLTI series terminal block (sold separately) positioned on left side.

CLXI-2DIMU8 ensures quiet and trouble-free operation. This technologically advanced universal dimmer offers unparalleled reliability and is the perfect solution for noisy environments that require optimal dimming performance.

Auto-Load Detection

Each channel of the CLXI-2DIMU8 is capable of automatically detecting the dimmable load type connected to it and selecting the appropriate operating mode to control that load. Reverse-phase (trailing edge) mode supports incandescent and electronic low-voltage load types while forward-phase (leading edge) mode handles magnetic low-voltage, neon, and other inductive load types.

Override Feature

An override feature allows each channel to be adjusted to a preset state during setup. In the event that Cresnet® communications should be disrupted for any reason, a simple contact closure can be used to activate the override presets.

CAEN Installation

Populate Crestron [CAEN](#) and [CAENIB](#) cabinets with multiple Universal Dimmer Modules to accommodate 230 Volt applications of any size. The CLXI-2DIMU8 occupies a single module space in any CAEN or CAENIB automation enclosure. Termination of high-voltage wiring to the module is facilitated by a [CLTI-2DIMU8](#) terminal block, which is sold separately to enable termination of the dimmer's wiring any time prior to installing the module. The CLXI-2DIMU8 can be controlled by a control system via the Cresnet network. A 5-wire link provides bussing of the Cresnet and override signals between modules within an enclosure (interconnect jumpers included).

CLXI-2DIMU8 8 Channel Universal Dimmer Module, 2 Feeds, 230V

SPECIFICATIONS

Load Ratings

Dimmer Channels: 8
Per Channel: 2.5 Amps (575 Watts)
Per Group: Channels 1-4: 10 Amps (2300 Watts)
Channels 5-8: 10 Amps (2300 Watts)
Module Total: 20 Amps (4600 Watts)^[1]
Minimum Load: 0 Watts
Load Types: LED, incandescent, magnetic low voltage, electronic low voltage, 2-wire fluorescent, & non-dimmable lighting
Dimming Modes: Auto-load detection, Forced reverse-phase, Forced forward-phase

Power Requirements

One or two feeds (may be same or different phases);
230 Volts AC, 50/60 Hz, single-phase, 10 Amps maximum per feed

Connectors on Module

Module Interconnect: (2) 5-pin 0.156 inch headers;
Cresnet/Override interconnect ports;
Each connects to a CAEN-BLOCK or the adjacent CLXI-Series module using the interconnect cable provided

Connections via CLTI Terminal Block (sold separately)

LINE 1 – 2: (2) DIN rail terminal blocks, brown, line power inputs
DIM 1 – 8: (8) DIN rail terminal blocks, red, channel outputs
N IN 1 – 2: (2) DIN rail terminal blocks, blue, line input neutrals
N OUT 1 – 8: (8) DIN rail terminal blocks, blue, channel output neutrals

Buttons

SETUP: (1) Pushbutton, for Local mode / channel activation and touch-settable ID (TSID)
MODE (not labeled): (1) Pushbutton, for dimming mode selection when in Local mode

Indicators

PWR: (1) Green LED, indicates line power is applied to the LINE 1 terminal
NET: (1) Yellow LED, indicates communication with the control system
1 – 8: (8) Tri-color LEDs, each indicates the dimming mode and operational state of the corresponding channel

Environmental

Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 12 BTU/hr + (3.8 BTU/hr x Load Current in Amps);
88 BTU/hr at maximum load

Enclosure

Gray metal with black heat sink, surface mount module with (2) integral mounting flanges;
Occupies 1 module space in a CAEN or CAENIB enclosure

Dimensions

Height: 7.59 in (193 mm)
Width: 6.92 in (176 mm)
Depth: 3.43 in (87 mm)

Weight

3.5 lb (1.6 kg)

Standards & Certifications

UL Listed, CAN ICES-3(A)/NMB-3(A), FCC Part 15

MODELS & ACCESSORIES

Available Models

CLXI-2DIMU8: 8 Channel Universal Dimmer Module, 2 Feeds, 230V

Available Accessories

CLTI-2DIMU8: Terminal Block for CLXI-2DIMU8
CAEN: Automation Enclosures
CAENIB: Automation Enclosures – International Versions, 230V

Notes:

1. When connecting to a third-party arc fault breaker, the total load should not exceed 1,000 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, please visit www.crestron.com/opensource.

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