

CLS-EXP-DIMFLV

iLux® 0-10V Dimmer Expansion Module

- > Works with Crestron iLux®, CLW,^[1] and CLX Series dimmers
- > Emulates the characteristics of the dimmer that is controlling it
- > Shares a single iLux dimmer channel with up to 4 more Expansion Modules
- > Provides 0-10 Volt dimming control
- > Supports 120, 230, and 277 Volt loads up to 16 Amps
- > Supports switching of non-dimmable lighting loads and motors
- > Includes built-in air gap relay
- > Mounts to a wall or above a suspended ceiling
- > CEC Title 24 2013 Compliant

The CLS-EXP-DIMFLV is a 0-10 Volt dimming expansion module for the Crestron iLux® Integrated Lighting System (CLS-C6 Series) and other Crestron® lighting dimmers. It can also be used to switch non-dimmable loads. A single model supports a 120, 230, or 277 Volt load up to 16 Amps.

Any output channel of the iLux system can be used to control the CLS-EXP-DIMFLV. It is also compatible with CLW Series^[1] in-wall dimmers and select CLX Series lighting control modules.^[2] The metal enclosure is designed to be mounted to a vertical surface^[3] and it can be installed 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 Ratings

Dimmer Channels: 1

Load Rating, Lamp: 16 Amps @ 120 to 277 Volts

Load Rating, Motor: 0.5 HP @ 120 Volts, 1 HP @ 230/277 Volts

Minimum Load: 15 Watts @ 120 Volts, 25 Watts @ 230 Volts, 30 Watts @ 277 Volts

Dim Load Types: 0-10 Volt fluorescent ballast or LED driver (4-wire)

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

Input Voltages

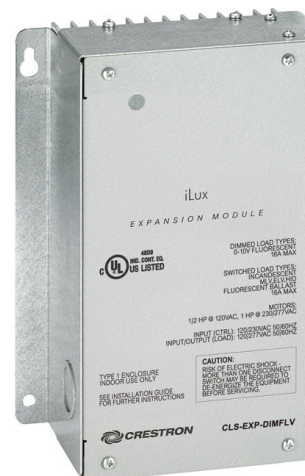
Line Power: 120 to 277 Volts AC, 50/60 Hz

Control Input: 120 or 230 Volts AC, 50/60 Hz, phase independent of line power and load

Connections

INPUT, CTRL: (1) Captive screw terminal,^[4] control input from CLS(I)-C6 Series, CLW-DIM Series,^[1] CLX(I)-DIM Series, GLX-DIM6, GLXX-2DIM8, DIN-1DIM4, or DIN-1DIMU4 dimmers;

Note: Presents a 25 Watt load to the controlling dimmer; a maximum of 5 CLS-EXP-DIMFLV modules may be connected to the controlling dimmer, which cannot be wired to control any other loads besides the



CLS-EXP-DIMFLV modules

INPUT, NEUT: (1) Captive screw terminal,^[4] neutral connection for control input

OUTPUT, SW OUT: (1) Captive screw terminal,^[4] switched load output

OUTPUT, HOT: (1) Captive screw terminal,^[4] line power input

OUTPUT, NEUT: (1) Captive screw terminal,^[4] neutral connection for line power input and load

0-10V +/-: (2) Captive screw terminals,^[4] dimming control output;

Class 1 or Class 2 wiring allowed;

Control Voltage is 0-10 Volts DC, 70 mA

GROUND: (1) 3-terminal chassis ground bus bar

Controls & Indicators

STATUS: (1) Red LED behind front panel, illuminates when load output is on

POWER: (1) Green LED behind front panel, indicates line power is applied to the HOT terminal

Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 70 BTU/Hr at maximum load, 16A

Enclosure

Surface mount^[3] module with (2) integral mounting flanges, galvanized steel w/gray matte powder coat front panel, extruded aluminum heat sink, and (4) 1/2" or 3/4" conduit knockouts provided on bottom and lower left & right sides

CLS-EXP-DIMFLV iLux® 0-10V Dimmer Expansion Module

Dimensions

Height: 8.82 in (224 mm)

Width: 6.39 in (163 mm)

Depth: 3.18 in (81 mm)

Weight

3.34 lb (1.52 kg)

Standards & Certifications

UL Listed

CEC Title 24 2013 Compliant

MODELS

Available Models

CLS-EXP-DIMFLV: iLux® 0-10V Dimmer Expansion Module

Notes:

1. CLW Series device must have a dedicated neutral.
2. Compatible only with forward-phase dimming modules.
3. Must be oriented upright, mounted to a vertical surface, with 6 inches (153 mm) minimum spacing above and below for proper ventilation and heat dissipation.
4. Captive screw terminals accept up to two 22 to 12 AWG (0.34 to 4.0 mm²) wires per terminal.

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.

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CAD DRAWINGS

