CLS-EXP-DIMU

iLux[®] Universal Dimmer Expansion Module

- > Works with Crestron iLux[®], CLW^{2]}, DIN, and CLX series dimmers
- > Emulates the characteristics of the dimmer that is controlling it
- > Up to 5 Expansion Modules can be connected to a single iLux dimmer channel
- > Supports 120, 230, and 277 Volt LED^[1], ELV, MLV, NCC, incandescent, and 2-wire dimmable fluorescent loads
- > Auto-selects for forward or reverse phase
- > Includes threshold adjustment for setting minimum fluorescent dimming level
- > Built-in air gap relay at the output
- > Mounts to a wall or above a suspended ceiling
- > CEC Title 24 2013 Compliant

The CLS-EXP-DIMU enables the expansion of Crestron iLux[®] Integrated Lighting System (CLS-C6 series) and other Crestron[®] lighting dimmers to allow dimming of both forward and reverse phase type loads. Supported loads include LED^[1], electronic low-voltage, magnetic low-voltage, incandescent, neon/cold cathode, or 2-wire dimmable fluorescent. A single model supports 120, 230, or 277 Volt loads up to 16 Amps.

The CLS-EXP-DIMU simplifies installation by auto-detecting the dimmable load type connected to it and selecting the appropriate operating mode to control that load. Reverse phase (trailing edge) mode supports incandes-cent and electronic low-voltage load types, while forward phase (leading edge) mode handles magnetic low-voltage, neon, and other inductive load types.

Any output channel of the iLux system can be used to control the CLS-EXP-DIMU to dim a fully loaded circuit. It is also compatible with CLW-Series^[2] in-wall dimmers and select CLX-Series lighting control modules^[3]. The metal enclosure is designed for mounting to a vertical surface^[4], and can be installed in an environmental air-handling space above a suspended ceiling. Conduit knockouts are provided on the bottom and lower sides. All connections are made via screw terminals behind the front cover.

SPECIFICATIONS

Load Ratings

Dimmer Channels: 1 Load Rating: 16 Amps

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Minimum Load: 25 Watts

Load Types: LED^[1], electronic low voltage, incandescent, neon/cold cathode, magnetic low voltage, 2-wire dimmable fluorescent (Advance Mark 10 Powerline[®] or equivalent)

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^[5], control input from CLS(I)-C6 Series, CLW-DIM Series^[2], 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-DIMU modules may be connected to the controlling dimmer, which cannot be wired to control any other loads besides the CLS-EXP-DIMU modules

INPUT, NEUT: (1) Captive screw terminal^[5], neutral connection for control input

OUTPUT, DIM OUT: (1) Captive screw terminal^[5], dimmed load output **OUTPUT, HOT:** (1) Captive screw terminal^[5], line power input

OUTPUT, NEUT: (1) Captive screw terminal $^{\rm [5]}$, neutral connection for line power input and load

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

Controls & Indicators

FLUORESCENT OFF THRESHOLD: (1) recessed screwdriver-adjustable trim pot behind removable cap, adjusts minimum brightness level **PHASE:** (1) Yellow LED behind front panel, illuminates when operating in

reverse-phase mode

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

S1: (1) 2-position DIP switch behind front panel; selects forward, reverse, or auto-detect dimming mode

S2: (1) 2-position DIP switch behind front panel; enables/disables zerocross detection filter

Enclosure

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



Environmental

Temperature: 32° to 104°F (0° to 40°C) Humidity: 10% to 90% RH (non-condensing) Heat Dissipation: 200 BTU/Hr at maximum load, 16A

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-DIMU: iLux® Universal Dimmer Expansion Module

Notes:

- 1. For a list of compatible ballasts, visit www.crestron.com/lightingcompatibility (PDF)
- 2. CLW-Series device must have a dedicated neutral.
- 3. Compatible only with forward-phase dimming modules.
- 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.
- 5. 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

