

CLS-EXP-DIMFDB

iLux® 3-Wire Fluorescent Dimmer Expansion Module

- > Works with Crestron iLux®, CLW^[1], 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 3-wire electronic fluorescent dimming
- > Includes threshold adjustment for setting minimum 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-DIMFDB enables the expansion of Crestron iLux® Integrated Lighting System (CLS-C6 series) and other Crestron® lighting dimmers to allow control of 3-wire electronic fluorescent dimming ballasts. A single model supports 120, 230, or 277 Volt loads up to 16 Amps. Any output channel of the iLux system can be used to control the CLS-EXP-DIMFDB to dim a fully loaded circuit. It is also compatible with CLW-Series^[1] in-wall dimmers and select CLX-Series lighting control modules^[2].

The CLS-EXP-DIMFDB is designed for mounting to a vertical surface^[3], 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
Minimum Load: 15 Watts at 120 Volts, 25 Watts at 230 Volts, 30 Watts at 277 Volts
Load Types: 3-wire electronic fluorescent dimming ballasts (Lutron® Hi-Lume® 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^[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-DIMFDB modules may be connected to the controlling dimmer, which cannot be wired to control any other loads besides the CLS-EXP-DIMFDB modules

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



OUTPUT, DIM OUT: (1) Captive screw terminal^[4], dimmed load output
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
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
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, (4) 1/2" or 3/4" conduit knockouts provided on bottom and lower left & right sides

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-DIMFDB: iLux® 3-Wire Fluorescent 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

