

CLWI-DIMFLVEX

In-Wall 0-10V Dimmer, 230VAC

- > 0-10V dimming control
- > Field-replaceable and engravable buttons
- > Available in anthracite or white finishes
- > infiNET EX® robust communication
- > Configurable up to six buttons
- > Screw-clamp connectors for easy installation
- > Stylish bargraph LED array provides real-time status feedback

The CLWI-DIMFLVEX delivers native Crestron® control to 0-10V dimmable fixtures or switched loads in new or retrofit 230 Volt applications. Featuring reliable infiNET EX® wireless technology, the CLWI-DIMFLVEX can be installed in virtually any location thanks to reliable mesh networking. The CLWI-DIMFLVEX delivers a perfect solution for controlling newer LED fixtures from a single gang, without requiring external boosters.

Field-Replaceable and Engravable Buttons

The CLWI-DIMFLVEX features engravable buttons that can be swapped out in the field. Change of room décor or functionality is easy to handle long after the dimmer or switch has been installed. Positive snap-on fittings require no tools. Configure the dimmer or switch with a large rocker, or any combination of up to two adjacent half-size rockers or triple button pad. Each CLWI-DIMFLVEX ships with a full assortment of blank buttons, as well.

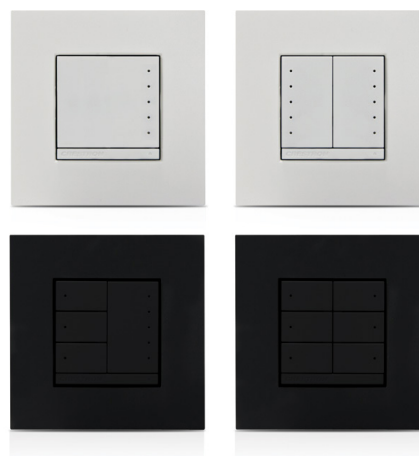
Integrated Keypad

Because the CLWI-DIMFLVEX is attached to the Crestron network, it can also function as a keypad, sending commands to trigger whole-room lighting scenes or distributed audio functions. Supporting up to six buttons, the in-wall dimmer or switch serves as a great user control interface in any Crestron system. Its single-box form factor maximizes control capability in a small space while increasing the opportunity for Crestron control in every room. Also available are aesthetically matched standalone keypads which use Cresnet® or infiNET EX communications.

infiNET EX

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption.^[1]

The CLWI-DIMFLVEX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-GWEXER](#), [DIN-AP3MEX](#), or [MC3^{\[2\]}](#)). Up to 100 infiNET EX devices may coexist on a single wireless network, and every device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths^[1]. Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.



Streamlined Installation

In addition to field replaceable buttons, the CLWI-DIMFLVEX features screw-clamp connectors for simplified wiring while reducing installation time and material costs. So slim, the CLWI-DIMFLVEX can be installed in square gang boxes making them the perfect choice for both new and retrofit projects.

SPECIFICATIONS

Load Ratings

Minimum Load: 7 Watts

Maximum Load: 2 Amps/AX; 30mA sink only per channel

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

Power Requirements

230 Volts AC, 50Hz, line power

Controls

Buttons: Configurable for 1 rocker (up/down), or any combination of up to 2 small rockers and/or 2 three-button pad;

Maximum layout contains 6 buttons; each press configurable for up to 3 discrete functions via single click, double click and hold; Programmable via control system

LED Indicator

Feedback: Up to (10) White LEDs, depending on button configuration

Wireless

RF Transceiver: infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant

Range (typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); subject to site-specific conditions and individual device capabilities^[1]

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Gateway: Requires an infiNET EX gateway^[2]

Connections

Hot: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, line power input
Neutral: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, neutral input
Load: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, load outputs
0-10V+: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, 10V+ output
0-10V-: (1) 14-12 AWG (1 x 1.5 – 2.5 mm²), screw terminal, 10V- outputs
Ground: (1) screw post, ground

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

1-gang mountable in a 35 mm deep square or round electrical box; gangable in horizontal and vertical positioning; Requires faceplate (not included)^[3]

Dimensions

Height: 2.80 in (72 mm)
Width: 2.89 in (74 mm)
Depth: 1.24 in (33 mm) including front face w/ buttons

Weight

3.4 oz (95 g)

MODELS & ACCESSORIES

Available Models

CLWI-DIMFLVEX-ANTH: In-Wall 0-10V Dimmer, 230VAC, Anthracite
CLWI-DIMFLVEX-W: In-Wall 0-10V Dimmer, 230VAC, White

Available Accessories

CEN-GWEXER: infiNET EX® & ER Wireless Gateway
CEN-GWEXER-PWE: infiNET EX® & ER Wireless Gateway w/ PoE Injector
CENI-GWEXER: infiNET EX® & ER Wireless Gateway - International Version
CENI-GWEXER-PWE: infiNET EX® & ER Wireless Gateway w/ PoE Injector - International Version
MC3: 3-Series Control System® w/infiNET EX®
DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX®
CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured
GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks
CLWI-BTN-RKRLG-ANTH_ENGRAVED: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

CLWI-BTN-RKRLG-W_ENGRAVED: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

CLWI-BTN-RKRSM-ANTH_ENGRAVED: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

CLWI-BTN-RKRSM-W_ENGRAVED: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

CLWI-BTN-SM-ANTH_ENGRAVED: Small Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

CLWI-BTN-SM-W_ENGRAVED: Small Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

CLWI-BTN-RKRLG-ANTH_BLANK: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

CLWI-BTN-RKRLG-W_BLANK: Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

CLWI-BTN-RKRSM-ANTH_BLANK: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

CLWI-BTN-RKRSM-W_BLANK: Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

CLWI-BTN-SM-ANTH_BLANK: Small Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

CLWI-BTN-SM-W_BLANK: Small Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. A dedicated infiNET EX Wireless Expander, model CLW-EXPEX or GLA-EXPEX, is also available.
2. Item(s) sold separately.
3. Faceplate not included. Requires an FP-INTENSE or FP-PURE faceplate, available in 18 colors and finishes up to 5-gang in size. Contact Crestron International by phone: +32.15.50.99.50 or email: info@crestron.eu.

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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CAD DRAWINGS

