CLW-DIMFLVEX-277-P

In-Wall 0-10V Dimmer, 277V

> 0-10V dimming control

> Field-replaceable and engravable buttons

> Available in a variety of finishes

> infiNET EX® robust communications

> Models popular Cameo® style

> Configurable for up to four buttons

> Matching aesthetics across the entire line

> Screw-clamp connectors for easy installation

> Stylish bargraph LED array provides real-time status feedback

> CEC Title 24 2013 Compliant

The CLW-DIMFLVEX-277-P is a Cameo® in-wall dimmer that delivers native Crestron® control to 0-10V dimmable fixtures or switched loads in new or retrofit 277 Volt applications. Along with the entire line of Cameo products, it features field-replaceable, engravable buttons and can be configured with various button layouts and designer colors, making the CLW-DIMFLVEX-277-P a versatile and affordable lighting control solution. In addition to its streamlined design and attractive look and feel, this dimmer can be installed in virtually any location. The mesh-networking topology of infiNET EX® communications brings proven reliability to the CLW-DIMFLVEX-277-P.

Field-Replaceable and Engravable Buttons

The CLW-DIMFLVEX-277-P 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. The rocker switch brings a familiar user interface to the Crestron in-wall dimmer, while the versatility of up to 4 buttons takes advantage of prime single-gang wall box real estate; use buttons to control in-room audio or lamps in addition to any other light connected to the system. The comprehensive list of designer colors blends the CLW-DIMFLVEX-277-P into virtually any décor and style, suiting even the most exquisite space.

Integrated Keypad

Because the CLW-DIMFLVEX-277-P 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 four 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.

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 CLW-DIMFLVEX-277-P 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 CLW-DIMFLVEX-277-P features screw-clamp connectors for simplified wiring while reducing installation time and material costs. So slim, the CLW-DIMFLVEX-277-P can be installed in standard gang boxes making them the perfect choice for both new and retrofit projects.

SPECIFICATIONS

Load Ratings

Maximum Load: 5 Amps, mechanically latching relay
Dim Load Types: 0-10 Volt fluorescent ballast or LED driver (4-wire)
Dim Control Output: 0-10 Volts DC 60 mA sink/source
Switch Load Types: Incandescent, ELV, MLV, fluorescent ballast, HID

Power Requirements

277 Volts AC, 50/60 Hz, line power;
Dedicated neutral wire required

Controls

Buttons 1-4: Configurable for 1 large rocker switch or 1 to 4 single-action pushbuttons; Programmable via control system
Dimming Ramp Rate: 5 seconds (default), software adjustable 0.01 to 10 seconds
Preset Fade Time: 2 seconds (default), software adjustable 0.01 to 120 seconds

CRESTRON®

LED Indicators

Feedback: (7) White LEDs
Bargraph: (1) 7-segmented bargraph display utilizing the 7 feedback LEDs

Wireless Communications

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]
Gateway: Requires an infiNET EX gateway[2]

Connections

Line In: (1) 16 AWG flying lead, black
Neutral: (1) 16 AWG flying lead, white[3]
Ground: (1) 16 AWG flying lead, green
SW/Dim Out: (1) 16 AWG flying lead, red
Dim +: (1) 16 AWG flying lead, purple
Dim –: (1) 16 AWG flying lead, gray

Environmental

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

Enclosure

1-gang mountable in a 3.5 in (89 mm) deep electrical box; Requires decorator style faceplate (not included)

Dimensions

Height: 4.13 in (105 mm)
Width: 1.75 in (45 mm)
Depth: 1.80 in (46 mm) including front face w/ buttons

Weight

5 oz (142 g)

Standards & Certifications

UL Listed
CEC Title 24 2013 Compliant

Available Models

CLW-DIMFLVEX-277-P-A-S: In-Wall 0-10V Dimmer, 277VAC, Almond Smooth
CLW-DIMFLVEX-277-P-A-T: In-Wall 0-10V Dimmer, 277VAC, Almond Textured
CLW-DIMFLVEX-277-P-BRN-S: In-Wall 0-10V Dimmer, 277VAC, Brown Smooth
CLW-DIMFLVEX-277-P-B-S: In-Wall 0-10V Dimmer, 277VAC, Black Smooth
CLW-DIMFLVEX-277-P-B-T: In-Wall 0-10V Dimmer, 277VAC, Black Textured

CLW-DIMFLVEX-277-P-DA-S: In-Wall 0-10V Dimmer, 277VAC, Dark Almond Smooth
CLW-DIMFLVEX-277-P-DSK-T: In-Wall 0-10V Dimmer, 277VAC, Dusk Textured
CLW-DIMFLVEX-277-P-GRY-S: In-Wall 0-10V Dimmer, 277VAC, Gray Smooth
CLW-DIMFLVEX-277-P-IVR-S: In-Wall 0-10V Dimmer, 277VAC, Ivory Smooth
CLW-DIMFLVEX-277-P-LAT-T: In-Wall 0-10V Dimmer, 277VAC, Latte Textured
CLW-DIMFLVEX-277-P-W-S: In-Wall 0-10V Dimmer, 277VAC, White Smooth
CLW-DIMFLVEX-277-P-W-T: In-Wall 0-10V Dimmer, 277VAC, White Textured

Available Accessories

CEN-GWEXER: infiNET EX® & ER Wireless Gateway
MC3: 3-Series Control System®
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
CLW-BTN: Engravable Button Caps for International In-Wall Dimmers & Switches

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. A neutral wire is required for normal operation. Refer to the Installation Guide for alternate wiring configurations.

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.

CAD DRAWINGS

.32 in
[8 mm]

1.75 in
[45 mm]

4.13 in
[105 mm]

1.80 in
[46 mm]

2.65 in
[68 mm]