

CLCI-1DIMFLV2EX-W

Wireless In-Ceiling 0-10V Dimmer, 230VAC

- > Compact 2-channel 0-10 Volt dimmer for new or retrofit applications
- > Two independently-controlled zone outputs
- > Crestron® control of any lighting fixture
- > No special wiring — installs inline at the fixture
- > Maximum 500 VA load capacity per channel
- > Reliable wireless communication using infiNET EX® technology
- > Local controls for testing and maintenance
- > Built-in support for control via standard momentary or maintained switch
- > Setup via on-board button or connected switch
- > Daisy-chain units for easy deployment
- > Operates across voltage range of 220-240 VAC

The CLCI-1DIMFLV2EX-W is a two-channel 0-10 Volt dimmer capable of controlling two independent, 230 Volt AC lighting loads. Its ultra-slim design allows it to be installed in the ceiling, either on or near the lighting fixture. Powered by infiNET EX® technology, the CLCI device communicates wirelessly with the Crestron® control system, making it perfect for both new and retrofit applications. Additionally, the dimmer installs inline without requiring any special wiring and can be controlled via a standard light switch.

Easy Loop-Thru Wiring

Feeding each dimmer is a set of terminals used to power the unit. A second set of high-voltage terminals wired in parallel allow for a fast, clean installation when deploying multiple CLCI units. No need for wire connectors or extra gang boxes; just “daisy chain” multiple CLCIs together. In certain retrofit applications, this lets you create more zones from what was originally wired.

Out-of-the-box Control via Standard Switch

The CLCI-1DIMFLV2EX-W uses either a momentary or a maintained switch to provide a closure, such as a standard lighting switch. A standard lighting switch, the kind carried in any hardware store, is a cost-effective solution for basic on and off functions. A momentary, pushbutton-type switch can be used when the application requires dimming the load. The momentary switch can be set up so that tapping the button turns the connected load on and off, while pressing and holding the button dims the load up or down.

Complete Crestron Control

Because it's connected to the Crestron system, the CLCI-1DIMFLV2EX-W can also be controlled from any [keypad](#), [touch panel](#), [remote](#), or [mobile device](#). Tie in occupancy sensors and photocells together with [Crestron Fusion RV®](#) software for a complete solution to effectively manage room assets.

Simple Setup

Setup is simple, especially when using a connected maintained or momentary switch. A specific series of button presses initiates the wireless device's acquire mode, so there's no need to climb a ladder to join the device to the infiNET EX network.



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 CLCI-1DIMFLV2EX-W communicates with a Crestron® control system via an infiNET EX Wireless Gateway (model [CEN-RFGW-EX](#), [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.

SPECIFICATIONS

Load Ratings

Number of Channels: 2

Maximum Load per Channel: 2AX (2A fluorescent)

Dim Load Types: 0-10 Volt fluorescent ballast or LED driver; 65 mA max current sink per channel

Switch Load Types: Incandescent, tungsten-halogen, magnetic low-voltage, electronic low-voltage, fluorescent ballast, neon/cold cathode, motor

Input Voltage

220 to 240 Volts AC, 50/60 Hz, line power

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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: 30 m (100 ft) indoors, 55 m (175 ft) outdoors for device to device; 45 m (150 ft) indoors, 75 m (250 ft) outdoors for device to gateway;

All distances subject to site specific conditions

Gateway: Requires a CEN-RFGW-EX gateway or an MC3

Connectors

L: (3) Screw terminals, connects to line AC; internal wiring in parallel

N: (2) Screw terminals connects to neutral AC; internal wiring in parallel

G: (2) Screw terminals, connects to earth ground; internal wiring in parallel

R: 1) Screw terminal, connects to remote switch;

Remote switch wires to L and R; Consult manual for more information

-1: (1) Screw terminal, (-) 0-10V signal, channel 1

+1: (1) Screw terminal, (+) 0-10V signal, channel 1

-2: (1) Screw terminal, (-) 0-10V signal, channel 2

+2: (1) Screw terminal, (+) 0-10V signal, channel 2

N1: (1) Screw terminal, neutral, channel 1

SL1: (1) Screw terminal, switched line power, channel 1

N2: (1) Screw terminal, neutral, channel 2

SL2: (1) Screw terminal, switched line power, channel 2

Controls & Indicators

Setup: (1) Miniature pushbutton, joins an infiNET EX network

Chan. 1: (1) Green LED, indicates load is switched on

Chan. 2: (1) Green LED, indicates load is switched on

Enclosure

Plastic

Environmental

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

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

Dimensions

Height: 178 mm (7.00 in)

Width: 55 mm (2.13 in)

Depth: 41 mm (1.63 in)

Weight

199 g (7 oz)

MODELS & ACCESSORIES

Available Models

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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.
2. Item(s) sold separately.

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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