

CLCI-DIMUEX-W

In-Ceiling Dimmer, infiNET EX® Wireless, 230VAC



- 1-channel universal dimmer
- Provides control of lighting fixtures
- Compact surface-mount design for new or retrofit applications
- No special wiring—installs inline at the device
- Rated 300 W/VA load capacity
- infiNET EX® wireless communication ensures reliable operation
- Local controls for setup
- 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 using 220-240VAC power
- Captive screw terminal connections

The [CLCI-DIMUEX-W](#) is a universal dimmer capable of dimming 230VAC lighting loads. Its ultra-slim design allows it to be installed in the ceiling, next to or near the fixture. The CLCI-DIMUEX-W communicates with the Crestron control system using infiNET EX® wireless technology, making it perfect for both new and retrofit applications.

The CLCI-DIMUEX-W installs inline without requiring special wiring and can be controlled via a standard light switch.

Universal Dimming

The CLCI-DIMUEX-W supports dimming incandescent, tungsten-halogen, magnetic low voltage, electronic low voltage and dimmable CFL loads. Load detection circuitry automatically determines forward- or reverse-phase dimming mode. Two sets of screw terminals (internally wired in parallel) enable easy wiring to more than one load of up to 300 W/VA.

Easy Loop-Thru Wiring

The CLCI-DIMUEX-W is powered using a set of high-voltage screw terminals and has a second set of terminals that are wired in parallel to easily daisy-chain additional CLCI-series

devices. This provides a fast, clean installation when deploying multiple CLCI- devices and eliminates the need for additional wire connectors or extra gang boxes. In some retrofit applications, this lets you create more zones from what was originally wired.

Out-of-the-box Control via Standard Switch

The CLCI-DIMUEX-W provides built-in support for applications that require basic load control using a cost effective maintained or momentary switch to control the load. Use a maintained or momentary switch to perform basic on and off control. A momentary switch can also be used for basic dimming control by pressing and holding the button.

Complete Crestron Control

A Crestron control system connection allows the CLCI-DIMUEX-W to be controlled from any keypad, touch panel, remote, or mobile device. Tie in occupancy sensors and photocells together with Crestron Fusion® software for a complete solution to effectively manage energy.

Simple Setup

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

infiNET EX® Wireless Communications

infiNET EX wireless technology provides two way RF communications throughout a residential or commercial structure without the need for physical control wiring. Each infiNET EX device acts as an expander by sending command signals to other infiNET EX devices in range (approximately 150 ft (46 m) indoors) to ensure reliability and stability.

The device communicates with a control system via a [Crestron Wireless Gateway](#) (sold separately). Up to 100 infiNET EX devices may coexist on a wireless network.

NOTE: 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 is also available ([CLW-EXPEX](#), sold separately).

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Specifications

Power Requirements

Line Power 220 to 240VAC, 50/60Hz

Load Ratings

Control Channels 1
Maximum Load per Channel 300 W/VA
Load Types Incandescent, tungsten-halogen, magnetic low voltage, electronic low voltage, dimmable CFL

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; 46 m (150 ft) indoors, 75 m (250 ft) outdoors for device to gateway; Distances subject to site specific conditions, refer to [Installation and Setup of Crestron RF Products, Best Practices guide](#) (Doc #6689) for additional information
Gateway Requires a Crestron [Wireless Gateway](#) (sold separately)

Connections

L (3) Captive screw terminals for connecting to line AC; Internal wiring in parallel
N (2) Captive screw terminals for connecting to neutral AC; Internal wiring in parallel
G (2) Captive screw terminals for connecting to earth ground; Internal wiring in parallel
R (1) Captive screw terminal for connecting to remote switch; Remote switch wires to L and R; consult manual for more information
N (2) Captive screw terminals for load connections; Neutral to load; Internal wiring in parallel
DIM (2) Captive screw terminals for load connections; Dimming control to dimmed load; Internal wiring in parallel

Each terminal accepts a single 1-2.5 mm² (18-14 AWG) conductor.

Controls and Indicators

Setup (1) Miniature pushbutton for joining an infiNET EX network
On (1) Green LED, indicates load is on
Off (1) Green LED, indicates load is off

Environmental

Temperature 0° to 40°C (32° to 104°F)
Humidity 10% to 90% RH (noncondensing)

Construction

Plastic surface-mount housing, suitable for installation in a nonplenum ceiling space

Dimensions

Height 41 mm (1.61 in.)
Width 178 mm (7 in.)
Depth 55 mm (2.13 in.)

Weight

189 g (6.7 oz)

Compliance

Regulatory Model: CLCI-DIMUEX

CE;

In the CSEA region, available in Macau & Hong Kong only.

To search for product certificates, refer to support.crestron.com/app/certificates.

Model

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Available Accessories

For a list of available accessories, visit the [CLCI-DIMUEX-W](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

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The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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infiNET EX 

Specifications are subject to change without notice.

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