

CLCI-MCEX-W

In-Ceiling Motor Controller, infiNET EX® Wireless, 230VAC



- 1-channel bidirectional motor controller
- Provides control of window shutters, shades, and other equipment
- Compact surface-mount design for new or retrofit applications
- No special wiring—installs inline at the device
- Rated 2.5A FLA, 15A LRA at 230VAC
- infiNET EX® wireless communication ensures reliable operation
- Local controls for setup and testing
- 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 230VAC power
- Captive screw terminal connections

The Crestron® [CLCI-MCEX-W](#) is a single-channel bidirectional motor controller capable of controlling 230V window shutters, shades, projection screens, lifts, and other equipment. Its ultra-slim design allows it to be installed in the ceiling, either next to or near the motor. The CLCI-MCEX-W communicates with the Crestron control system using infiNET EX® wireless technology, making it perfect for both new and retrofit applications.

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

Bidirectional Motor Control

The CLCI-MCEX-W supports control of bidirectional motors. Two sets of screw terminals enable easy wiring to the motor for open and close control.

Easy Loop-Thru Wiring

The CLCI-MCEX-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-MCEX-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 open and close control.

Complete Crestron Control

A Crestron control system connection allows the CLCI-MCEX-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 230VAC, 50/60Hz

Load Ratings

Control Channels 1;
Comprised of two interlocking switched outputs, one for "raise/open" and one for "lower/close"

Maximum Load per Channel 2.5A FLA, 15A LRA, for use with loads having a power factor of 0.50 or greater

Load Types Bidirectional motor

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;
230V SPST normally-open momentary or maintained contact

SW1 (1) Captive screw terminal for load connection;
Switched load output for raise or open

SW2 (1) Captive screw terminal for load connection;
Switched load output for lower or close

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

Chan. 1 (1) Green LED, indicates raise/open output is switched on, also used for setup

Chan. 2 (1) Green LED, indicates lower/close output is switched on, also used for setup

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

199 g (7 oz)

Compliance

Regulatory Model: CLCI-MCEX

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-MCEX-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.

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

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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