CLCI-MCEX-W

Wireless Motor Controller, 230VAC

> Single-channel bidirectional motor controller

> Rated 2.5 Amps FLA, 15 Amps LRA at 230 Volts AC

> Enables automation of window shutters, shades, and other equipment

> Connects wirelessly to a Crestron® control system

> infiNET EX® wireless technology ensures reliable operation

> Also operable using a simple wired wall switch

> Includes onboard controls for setup and testing

> Captive screw terminal connections

> Slim surface-mount design

The Crestron® CLCI-MCEX-W is a single-channel motor controller designed for 230V system applications. It provides for control and automation of a bidirectional motor such as for window shutters, shades, projection screens, lifts, and other equipment. Its slim, surface-mountable design allows for versatile installation on an interior wall or in the ceiling.

The CLCI-MCEX-W communicates wirelessly with a Crestron control system via infiNET EX® technology. Integration with a control system enables the CLCI-MCEX-W to be controlled from any Crestron keypad, touch screen, handheld remote, or mobile device app. It can also enable intelligent automation as part of a complete Crestron energy management solution.

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure using a robust 2.4 GHz mesh network topology. A single infiNET EX Wireless Gateway (model CEN-GWEXER, CENI-GWEXER, MC3, or DIN-AP3MEX, each sold separately) can support an entire network of motor controllers, lighting dimmers, motorized shades, door locks, and other infiNET EX devices.[1]

As an alternative to control system integration, the CLCI-MCEX-W may be operated using a simple 230V momentary or maintained wall switch (not included). All high-voltage connections are made via captive screw terminals. An extra set of pass-through terminals is provided for easy daisy-chaining of multiple units on a single branch circuit.

SPECIFICATIONS

Load Control

Switched Load Types: Bidirectional motor
Motor Control Channels: One channel comprised of two interlocking switched outputs, one for "raise/open" and one for "lower/close"
Load Rating: 2.5 Amps FLA, 15 Amps LRA, for use with loads having a power factor of 0.50 or greater
Live/Load Voltage: 230 Volts AC, 50/60Hz

Connections

L: (3) Captive screw terminals, paralleled, Live power input and hardwire pass-throughs
N: (4) Captive screw terminals, paralleled, Neutral connections
G: (2) Captive screw terminals, paralleled, Ground connections
R: (1) Captive screw terminal, Remote control switch input (230V SPST normally-open momentary or maintained contact)
SW1: (1) Captive screw terminal, raise/open switched load output
SW2: (1) Captive screw terminal, lower/close switched load output

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

Controls & Indicators

Setup: (1) Pushbutton, for manual operation and wireless network setup
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

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, AES-128 encryption
Range (typical): 15 m (50 ft) to gateway or nearest mesh network device(s), subject to site-specific conditions and individual device capabilities, range between floors or ceilings is limited to one level [1]
Gateway: Requires an infiNET EX gateway (sold separately)

Construction

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

Environmental

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

CRESTRON®

Dimensions

Height: 41 mm (1.61 in)
Width: 55 mm (2.13 in)
Length: 178 mm (7.00 in)

Weight

199 g (7 oz)

Compliance

CE, c-Tick, EAC

MODELS & ACCESSORIES

Available Models

CLCI-MCEX-W: Wireless Motor Controller, 230VAC

Available Accessories

CEN-GWEXER: infiNET EX® & ER Wireless Gateway
CENI-GWEXER: infiNET EX® & ER Wireless Gateway – International Version
MC3: 3-Series Control System® w/infiNET EX® & ER Wireless Gateway
DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX® & ER Wireless Gateway

Notes:

1. The CLCI-MCEX-W and other AC-powered infiNET EX devices function as "routing nodes," which effectively extend the range of the wireless network beyond the initial range of the gateway. A maximum of six "hops" across routing nodes is allowed, although a maximum of three is recommended. Battery-powered infiNET EX devices only operate as leaf nodes and do not extend range. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of 50. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide (Doc #6689) for additional guidelines.

This product may be purchased from an authorized Crestron dealer or distributor. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at https://www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

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

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