

**Crestron CLF-LDIMUEX**  
**Crestron In-line Floor/Table Lamp Dimmer with infiNET EX®**  
**Installation Guide**



**Further Inquiries**

If you cannot locate specific information or have questions after reviewing this guide, please take advantage of Crestron's award winning customer service team by calling Crestron at 1-888-CRESTRON [1-888-273-7876]. For assistance in your region, please refer to the Crestron Web site ([www.crestron.com](http://www.crestron.com)) for a listing of Crestron worldwide offices.

You can also log onto the online help section of the Crestron Web site ([www.crestron.com/onlinehelp](http://www.crestron.com/onlinehelp)) to ask questions about Crestron products. First-time users will need to establish a user account to fully benefit from all available features.

**Future Updates**

As Crestron improves functions, adds new features and extends the capabilities of the CLF-LDIMUEX, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron Web site periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

**WARNING:** To avoid fire, shock, or death; turn off power at circuit breaker or fuse and test that power is off before wiring!

**NOTES:** Observe the following points.

- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- This product should be installed by a qualified electrician.

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**(2032222)**

**11.11**  
 Specifications subject to change without notice.

This product is Listed to applicable UL Standards and requirements by Underwriters Laboratories Inc.



**Regulatory Compliance**

**Federal Communications Commission (FCC) Compliance Statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions:

(1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

(Continued on the Following Page)

**DESCRIPTION**

The CLF-LDIMUEX is a dimmer designed to provide dimming control to floor and table lamps. Its design allows it to be connected directly between the wall and the floor or table lamp without requiring any special wiring. Although the CLF-LDIMUEX can be controlled locally on the device itself, integration with Crestron's industry leading infiNET EX® technology allows the device to communicate wirelessly with the Crestron® automation system for complete Crestron control.

**Universal Dimming**

The CLF-LDIMUEX is a universal dimmer capable of dimming 120 VAC lighting loads. The CLF-LDIMUEX supports dimming electronic low voltage, magnetic low voltage, incandescent and dimmable CFL loads. The device also features automatic load sensing that allows for the device to determine forward- or reverse-phase dimming. The device terminals enable easy wiring for loads up to 250 W/VA.

**infiNET EX Communications**

Crestron's groundbreaking infiNET EX wireless technology is a robust and ultra-reliable means of offering 2-way wireless communication throughout a residential or commercial setting. Utilizing a 2.4 GHz mesh network, the infiNET EX network effectively uses the devices in the network to relay wireless commands to the central gateway. Every dimmer and additional wirelessly connected device in the network communicates the same information across the network. The redundancy of infiNET EX mesh networking technology makes the system extremely dependable.

**Easy Installation**

Out of the box, the CLF-LDIMUEX is ready to be installed. No additional wires or special wiring is needed to install the unit. The dimmer power cord plugs into the wall and the lamp power cord plugs into the dimmer. Also, the switch closure cord can be plugged into the lamp's existing line voltage switch to allow for local control of the dimmer. To access the lamp's existing line voltage switch the lamp must be taken apart.

**Specifications**

Specifications for the CLF-LDIMUEX are listed in the following table.

**CLF-LDIMUEX Specifications**

SPECIFICATION	DETAILS
Load Ratings	
Number of Channels	1
Maximum Load per Channel	250 W/VA
Load Types	Electronic Low Voltage (ELV), Magnetic Low Voltage (MLV), Incandescent, Dimmable CFL, Auto Load Sensing
Input Voltage	120 VAC, 60 Hz Line Power
Wireless RF Transceiver	
Range <sup>1</sup>	2-way, 2.4 GHz ISM channels 11-26 (2400 to 2483.6 MHz), IEEE 802.15.4 compliant 100 ft (30 m) indoors, 175 ft (55 m) outdoors for device to device; 150 ft (45 m) indoors, 250 ft (75 m) outdoors for device to gateway; all distances subject to site specific conditions Requires a CEN-RFGW-EX gateway or MC3 (both sold separately).
Gateway	
Environmental Temperature	0° C to 40° C (30° F to 104° F)
Humidity	10 to 90% RH (non-condensing)
Dimensions	
Height	7 in (178 mm)
Width	2 1/8 in (55 mm)
Depth	1 5/8 in (41 mm)
Weight	7 oz (199 g)
Default RF ID	01
Enclosure	UL2043 rated Plastic
2-Series Control System Update File	Version 4.001.1012 or later <sup>2</sup>
3-Series Control System Update File	Version 1.2.0 or later <sup>2</sup>
CEN-RFGW-EX Update File	Version 2.1.37 or later <sup>2</sup>

- The range is dependent on its placement and the building in which it is used. The construction of the building, obstructions and RF interference from other devices are factors determining the effective range of the unit.
- The latest software versions can be obtained from the Crestron Web site. Refer to the NOTE following these footnotes.

**NOTE:** Crestron software and any files on the website are for authorized Crestron dealers and Crestron Authorized Independent Programmers (CAIP) only. New users may be required to register to obtain access to certain areas of the site (including the FTP site).

**Important Notes**

Read before wiring and installation.

**CAUTION:** TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A RECEPTACLE OR A TRANSFORMER-SUPPLIED APPLIANCE.

**ATTENTION:** GRADATEURS COMMANDANT UN BALLAST-AFIN DE REDUIRE LE RISQUE DE SURCHAUFFE ET LA POSSIBILITE D'ENDOMMAGEMENT A D'AUTRES MATERIELS, NE PAS INSTALLER POUR COMMANDER UNE PRISE OU UN APPAREIL ALIMENTE PAR UN TRANSFORMATEUR.

**NOTE:**

- Record the serial number of the device before installation. (Refer to CLC(I)-SERIES IMPORTANT NOTICE (Doc. 7179) included in the box).
- Device must remain in an accessible location when placed into *Acquire* mode and joined to a gateway.

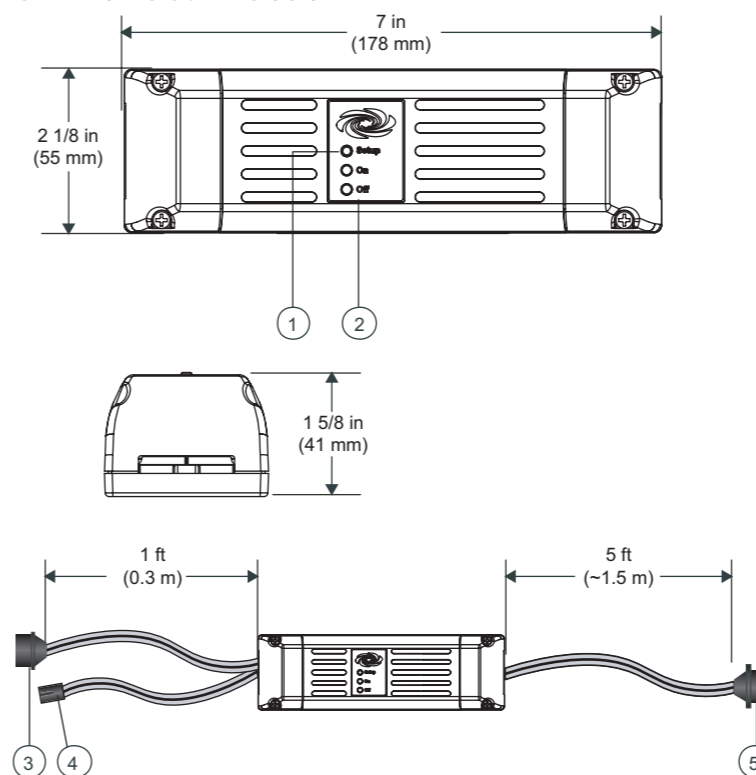
**NOTE:**

- Codes: Install in accordance with all local and national electrical codes.
- Temperature: For use where temperatures are between 32° to 104° F (0° to 40° C).
- Spacing: If mounting one device above another, leave at least 4 1/2 in (115 mm) vertical space between them.

**Physical Description**

This section provides information on the connections, controls and indicators available on the CLF-LDIMUEX.

**CLF-LDIMUEX Overall Dimensions**

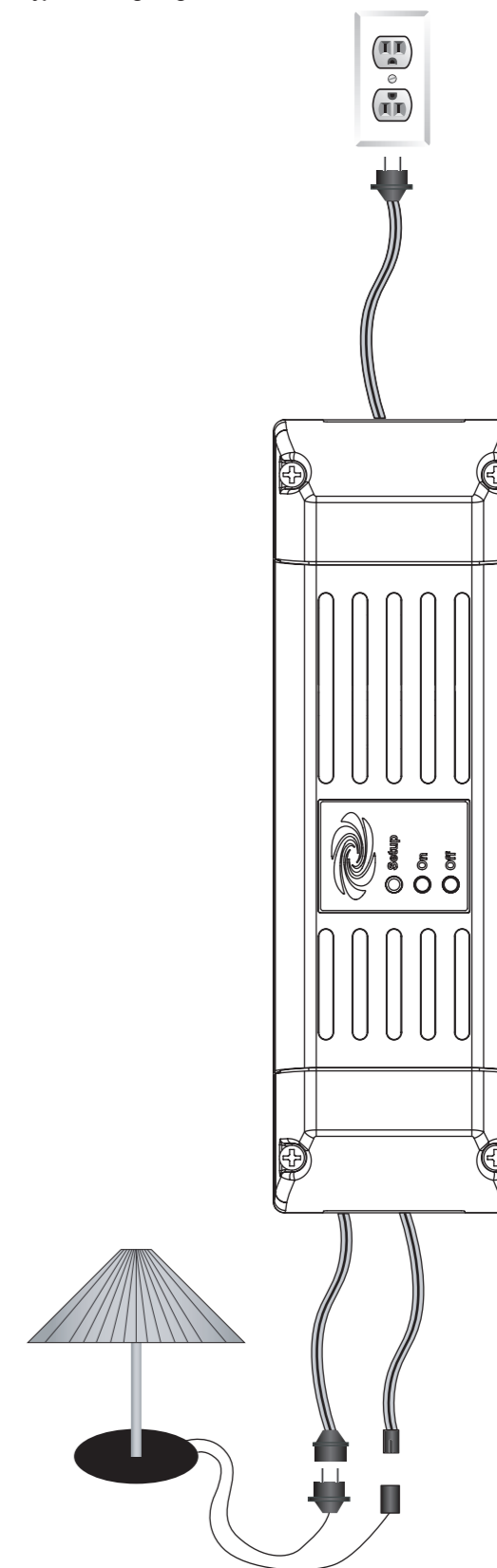


**Connectors, Controls & Indicators**

#	CONNECTORS, CONTROLS & INDICATORS	DESCRIPTION
1	Setup	Miniature push button for joining an infiNET EX network.
2	On / Off	Two green LEDs indicate that the load is on or off.
3	2-Pin Polarized NEMA1-15R	One female connector that plugs into lamp cord.
4	Female C7	One female C7 switch closure input (IEC60320-C7).
5	2-Pin Polarized NEMA1-15P	One male power cord that plugs into standard 120V power outlet.

**WIRING**

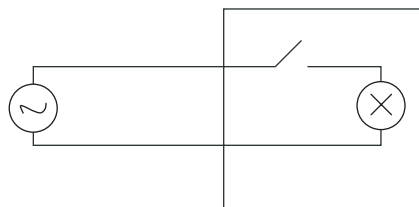
**Typical Wiring Diagram**



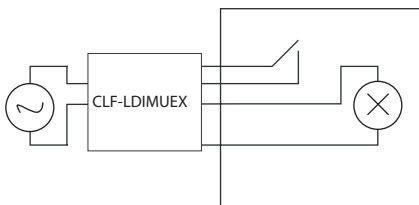
**NOTE:** The contact closure does not need to be connected for proper operation.

## REMOTE SWITCH WIRING OPTIONS

### Standard Lamp Wiring



### CLF-LDIMUEX Wiring with Contact Closure



## INSTALLATION

Complete the following procedure to install a CLF-LDIMUEX dimmer.

1. Connect the lamp to the female 2-pin polarized NEMA1-15R port on the CLF-LDIMUEX.
2. Connect the contact closure from the lamp to the CLF-LDIMUEX dimmer (optional).
3. Plug the CLF-LDIMUEX dimmer to power outlet.

**CAUTION:** The CLF-LDIMUEX should be placed in a well ventilated and dry area.

## LOCAL / REMOTE OPERATION

Operation described in this guide assumes the CLF-LDIMUEX is operated in *Local* mode where the external slave-switch (sold separately) directly controls the light levels on the CLF-LDIMUEX dimmer. The device can also operate in *Remote* mode, where the external slave-switch sends commands to the control system which can then be routed to control the load.

*Local* mode options (available in SIMPL Windows):

- Maintained Switch (Default): Unit will toggle on and off when the slave-switch is toggled.
- Momentary Switch:
  - Single Tap - Load will toggle on and off.
  - Double Tap - Initiates a fast-full-on.
  - Hold - Initiates cycle dimming.

## WIRELESS COMMUNICATIONS

Before a CLF-LDIMUEX can be used in a lighting system, it must first be acquired by an infiNET EX gateway (e.g., CEN-RFGW-EX or MC3, sold separately). Use the following procedure to join an infiNET EX network.

**NOTE:** A CLF-LDIMUEX can be acquired by only one gateway.

1. Place the gateway into *Acquire* mode from the from the unit (press the **ACQUIRE** button) or from Crestron Toolbox™. For details, refer to the latest version of the CEN-RFGW-EX Operations & Installation Guide (Doc. 6706) or MC3 Operations Guide (Doc. 7095) which is available from the Crestron Web site ([www.crestron.com/manuals](http://www.crestron.com/manuals)) or to the Crestron Toolbox help file.

**NOTE:** In an environment where multiple gateways are installed, only one gateway should be in *Acquire* mode at any time.

2. Tap the **Setup** button on the CLF-LDIMUEX three times rapidly, then press and hold until the **On** and **Off** LEDs blink once (may take up to 10 seconds. Release the **Setup** button.

**NOTE:** The acquire process can also be initiated by a remote maintained switch (if equipped) by flipping the switch four times rapidly, or by tapping a remote momentary switch (if equipped) four times rapidly. The **On** LED and attached load will blink (may take up to 10 seconds).

3. The **On** LED and attached load will flash slowly while it searches for a gateway in *Acquire* mode. When the CLF-LDIMUEX is acquired, the **On** LED and attached load will stay lit for five seconds and then turn off. If the CLF-LDIMUEX fails to acquire, the **On** LED and attached load will flash rapidly until a button is pressed. The load will then turn off.
4. Take the gateway out of *Acquire* mode after all devices have been acquired by either pressing the **ACQUIRE** button on the CEN-RFGW-EX or using Crestron Toolbox. For details, refer to the latest version of the CEN-RFGW-EX Operations & Installation Guide (Doc. 6706), MC3 Operations Guide (Doc. 7095) or to the Crestron Toolbox help file.

**NOTE:** To leave a gateway, place the device in *Acquire* mode when there is no gateway in *Acquire* mode.

To Check the communication status of the CLF-LDIMUEX, perform the tap-tap-tap-hold (step 2 above), but release the button after approximately two seconds. At this point, the **On** LED will indicate communication status as described below.

LED DISPLAY	COMMUNICATIONS STATUS
Turns on (up to five seconds) when button released	Device communicating with control system.
Blinks three times	Device communicating with RF network but not defined in program.
Blinks twice	Device previously acquired to RF network but not communicating with RF network.
Blinks once	Device not acquired to RF network.

## TROUBLESHOOTING

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron customer support representative.

TROUBLE	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Unit does not function.	Device is not receiving power.	Verify that dimmer is properly connected to power line and neutral and the circuit breaker is closed.
	Device is in <i>Remote</i> mode.	Check the SIMPL program to determine/change the operating mode.
	Device is not communicating with the gateway.	Use Crestron Toolbox to verify network connection to the device.

## Regulatory Compliance (Continued)

### Industry Canada (IC) Compliance Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 centimeters from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter.

## Return and Warranty Policies

### Merchandise Returns / Repair Service

1. No merchandise may be returned for credit, exchange or service without prior authorization from CRESTRON. To obtain warranty service for CRESTRON products, contact an authorized CRESTRON dealer. Only authorized CRESTRON dealers may contact the factory and request an RMA (Return Merchandise Authorization) number. Enclose a note specifying the nature of the problem, name and phone number of contact person, RMA number and return address.
2. Products may be returned for credit, exchange or service with a CRESTRON Return Merchandise Authorization (RMA) number. Authorized returns must be shipped freight prepaid to CRESTRON, 6 Volvo Drive, Rockleigh, N.J. or its authorized subsidiaries, with RMA number clearly marked on the outside of all cartons. Shipments arriving freight collect or without an RMA number shall be subject to refusal. CRESTRON reserves the right in its sole and absolute discretion to charge a 15% restocking fee plus shipping costs on any products returned with an RMA.
3. Return freight charges following repair of items under warranty shall be paid by CRESTRON, shipping by standard ground carrier. In the event repairs are found to be non-warranty, return freight costs shall be paid by the purchaser.

### CRESTRON Limited Warranty

CRESTRON ELECTRONICS, Inc. warrants its products to be free from manufacturing defects in materials and workmanship under normal use for a period of three (3) years from the date of purchase from CRESTRON, with the following exceptions: disk drives and any other moving or rotating mechanical parts, pan/tilt heads and power supplies are covered for a period of one (1) year; touch screen display and overlay components are covered for 90 days; batteries and incandescent lamps are not covered.

This warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer. Purchasers should inquire of the dealer regarding the nature and extent of the dealer's warranty, if any.

CRESTRON shall not be liable to honor the terms of this warranty if the product has been used in any application other than that for which it was intended or if it has been subjected to misuse, accidental damage, modification or improper installation procedures. Furthermore, this warranty does not cover any product that has had the serial number altered, defaced or removed.

This warranty shall be the sole and exclusive remedy to the original purchaser. In no event shall CRESTRON be liable for incidental or consequential damages of any kind (property or economic damages inclusive) arising from the sale or use of this equipment. CRESTRON is not liable for any claim made by a third party or made by the purchaser for a third party.

CRESTRON shall, at its option, repair or replace any product found defective, without charge for parts or labor. Repaired or replaced equipment and parts supplied under this warranty shall be covered only by the unexpired portion of the warranty.

Except as expressly set forth in this warranty, CRESTRON makes no other warranties, expressed or implied, nor authorizes any other party to offer any warranty, including any implied warranties of merchantability or fitness for a particular purpose. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supersedes all previous warranties.