

# CLC-FANDELVEX

## Wireless Lighting and Fan Controller

- > Lighting load and motor controller for ceiling fans with attached lighting
- > Full-range dimming control for incandescent or electronic low-voltage lighting
- > Three fan speed settings and off
- > Provides reverse-phase dimming
- > No rewiring required for retrofit applications
- > Built-in infiNET EX® wireless communications
- > Fan canopy installation

Wirelessly control ceiling fans and lighting loads by adding the CLC-FANDELVEX to any Crestron® control system. The CLC-FANDELVEX provides fan speed control and a full range of incandescent and electronic low-voltage dimming for the light attached to the fixture. Through programming, the device has three custom-selectable fan speed settings as well as power off. Discreetly mounted within the fan canopy, the CLC-FANDELVEX can be installed into new or retrofit applications without necessitating any rewiring. Built with the ultra-reliable infiNET EX® wireless communications technology, the CLC-FANDELVEX seamlessly integrates with any Crestron control system for a complete, elegant whole-home automation solution.

### 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.<sup>[1]</sup>

The CLC-FANDELVEX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-GWEXER](#), [CEN-RFGW-EX](#), [DIN-AP3MEX](#), or [MC3](#)<sup>[2]</sup>). 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.<sup>[1]</sup> Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.

### Short Circuit Protection

Built-in short circuit protection prevents failure caused by excessive loading or improper wiring.

### Air-Gap Relay

When both the lighting and motor loads are turned fully off, the internal relay automatically opens, providing air-gap isolation to allow safe servicing of the light bulbs and fan motor.



## SPECIFICATIONS

### Load Ratings

**Load Types:** Incandescent, electronic low-voltage, motor  
**Dimmed Output:** 100 Watts  
**Fan Motor Output:** 1 Amp  
**Minimum Load:** 10 Watts

### Power Requirements

110 Volts AC, 60 Hz, line power

### Controls & Indicators

**LIGHT:** (1) Green LED, indicates lighting load is powered on  
**FAN:** (1) Green LED, indicates fan motor load is powered on  
**STATUS:** (1) Green and Red LED, indicates device's status; Green illumination indicates power is supplied to the device; Red illumination indicates an error  
**ACQUIRE:** (1) Pushbutton, for entering Acquire mode

### Connections

**Hot:** (1) 14 AWG flying lead, black  
**Neutral Input:** (1) 14 AWG flying lead, white  
**Lighting Load:** (1) 14 AWG flying lead, red  
**Fan Motor Load:** (1) 14 AWG flying lead, blue  
**Neutral Output:** (1) 14 AWG flying lead, white

### 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  
**Range (Typical):** 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); Subject to site-specific conditions and individual device capabilities<sup>[1]</sup>

**Gateway:** Requires an infiNET EX gateway<sup>[2]</sup>

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## Environmental

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

## Enclosure

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**Housing:** Plastic  
**Mounting:** Mounts in fan canopy

## Dimensions

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**Height:** 4-3/4 in (121 mm)  
**Width:** 2-1/8 in (54 mm)  
**Depth:** 1-1/4 in (32 mm)

## Weight

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0.5 oz (14 g)

## MODELS & ACCESSORIES

### AVAILABLE MODELS

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**CLC-FANDELVEX-W:** Wireless Lighting and Fan Controller

### AVAILABLE ACCESSORIES

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**CEN-GWEXER:** infiNET EX® & ER Wireless Gateway  
**CEN-RFGW-EX:** infiNET EX® Wireless Gateway  
**CEN-RFGW-EX-PWE:** infiNET EX® Wireless Gateway w/PoE Injector  
**MC3:** 3-Series Control System®  
**DIN-AP3MEX:** DIN Rail 3-Series® Automation Processor w/infiNET EX®  
**CLW-EXPEX-GD-W-T:** infiNET EX® Wireless Expander, Ground Pin Down, White Textured  
**GLA-EXPEX:** Crestron Green Light® Wireless Expander for infiNET EX® Networks

## 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. Crestron also offers dedicated infiNET EX expanders (models CLW-EXPEX or GLA-EXPEX, sold separately), which may be deployed to fill gaps in coverage and extend the wireless range of the mesh network. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of approximately 50. Additional gateways may be deployed to support more devices, with a maximum of 16 gateways permitted on a complete system (RF conditions allowing).
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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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