



Description

The INET-CBDEX-E and INET-CBDEX-P wireless Cameo keypads present a fresh, innovative concept in keypad design. They offer cutting-edge wireless performance for ease of installation, in a highly configurable 1-gang wall mount form factor that is at once inviting to the touch and appealing to the eye.

The INET-CBDEX-E and INET-CBDEX-P are functionally identical. For simplicity within this guide, the term "INET-CBDEX" is used except where noted.

| SPECIFICATION | DETAILS | |
|----------------------------|------------------------------------|--|
| Power Requirements (Line): | | |
| INET-CBDEX | 120 volts ac, 50/60 Hz | |
| INET-CBDEX-230 | 230 volts ac, 50/60 Hz | |
| INET-CBDEX-277 | 277 volts ac, 50/60 Hz | |
| Power Requirements (dc): | | |
| INET-CBDEX | 60 volts dc | |
| INET-CBDEX-230 | 60 volts dc | |
| INET-CBDEX-277 | 60 volts dc | |
| Environmental | | |
| Temperature | 32° to 113° F (0° to 45° C) | |
| Humidity | 10% to 90% RH (noncondensing) | |
| Heat Dissipation | 1 Btu/h | |
| Dimensions | | |
| Height | 4.13 in (105 mm) without faceplate | |
| Width | 1.75 in (45 mm) without faceplate | |
| Depth | 1.87 in (48 mm) | |
| Weight | 3 oz (64 g) | |

Additional Resources

Visit the product page on the Crestron website (www.crestron.com) for additional information and the latest firmware updates. Use a QR reader application on your mobile device to scan the QR image





INFT-CBDFX-F

INET-CBDEX-F

Assemble the Keypad

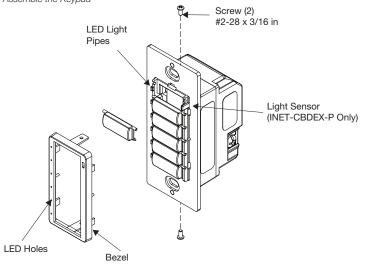
Attach the buttons to the keypad.

1. Arrange the button caps in position on the rear housing assembly according to the program plan

NOTE: A single button cannot be installed in the lowest position of the keypad.

- 2. Carefully position the bezel over the button caps on the rear housing assembly and secure with the two supplied #2-28 x 3/16 in screws.
- 3. Press and release each button to ensure that the button caps move freely.

Assemble the Keypad



A variety of loose button caps are provided for the INET-CBDEX. The button arrangements can be mixed and matched to suit the needs of the installation. The following shows the basic arrangement of the buttons on the keypad.

NOTE: Split small buttons may be installed in the bottom two positions only.

1

2

3

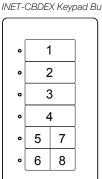
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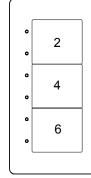
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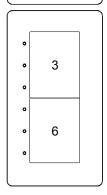
8

o 6

INET-CBDEX Kevpad Button Arrangement







Installation

NOTES: Observe the following points.

- Install and use this product in accordance with appropriate electrical codes and regulations.
- A licensed electrician should install this product.

NOTE: Before using the INET-CBDEX, ensure the device is using the latest firmware. Check for the latest firmware for the INET-CBDEX at www.crestron.com/firmware. Firmware is loaded onto the device using Crestron Toolbox™ software.

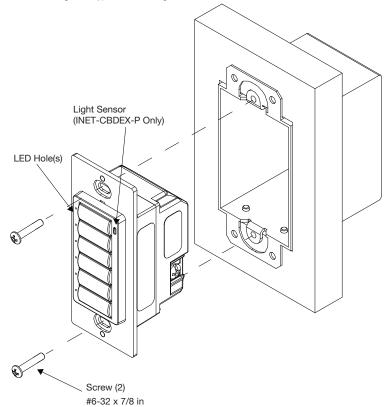
Use the following procedure to install the keypad in a standard 1-gang electrical box.

- 1. Turn the ac power off.
- 2. Connect the ac power cable to the line, neutral, and ground terminals.
- 3. Holding the keypad with the LEDs on the left, place it in the electrical box.
- 4. Secure the keypad using the included #6-32 x 3/4 in screws.

CAUTION: Excess wire pinched between the keypad and electrical box could short-circuit. Make sure all excess wire is completely inside the electrical box and not between the box and the keypad.

5. Make sure the keypad is oriented properly (note the location of the LED holes and light sensor), place it in the electrical box, and attach using the supplied 6-32 x 3/4 in combo head screws.

Mounting the Keypad in a 1-Gang Electrical Box



- 6. Attach the desired faceplate (not supplied).
- 7. Turn the ac power on.

Wireless Communications

The device connects to the Crestron network via the infiNET EX communications protocol. Use the procedures outlined below to join or leave an infiNET EX network and to verify communications between the device and the control system.

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Joining an infiNET EX Network

Before a device can be used in a lighting system, it must first join an infiNET EX network. To join an infiNET EX network, the device must be acquired by an infiNET EX gateway.

NOTE: A device can be acquired by only one gateway.

1. Put the infiNET EX gateway into Acquire mode from the unit itself or from Crestron Toolbox™. Refer to the gateway's manual at www.crestron.com/manuals for

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

- 2. Put the device into Acquire mode:
- a. Tap the top button three times and then press and hold it down (tap-tap-press+hold) until the top LED on the device blinks once (this can take up to 10 seconds).
- b. Release the button to start the acquire process. The top LED blinks slowly to show that the device is actively scanning the infiNET EX network.
- The top LED turns on for 5 seconds to show that the device has been successfully acquired by the infiNET EX network.
- The top LED blinks fast to indicate that the device was not successfully acquired by the infiNET EX network. Tap the top button to acknowledge the failure. Ensure the gateway is in Acquire mode and within range before attempting the acquire process again.
- 3. Once all devices have been acquired, take the gateway out of Acquire mode. Refer to the gateway's manual for details.

Leaving an infiNET EX Network

To leave an infiNET EX network, put the device into Acquire mode, as described in "Joining an infiNET EX Network" above, when no gateway is in Acquire mode.

Verifying Communications Status

To check the communications status of the device, tap the top button three times and then press and hold it down (tap-tap-press+hold) for up to 2 seconds. The LED blinks to indicate the communications status. Refer to the following table for details.

| LED | COMMUNICATIONS STATUS | |
|-----------------------|---|--|
| urns on for 5 seconds | The device is communicating with the control system. | |
| Blinks three times | The device is communicating with the gateway, but the gateway is not communicating with the control system. | |
| Blinks twice | The device was previously joined to the network but is not communicating with the gateway. | |
| Blinks once | The device is not joined to the network. | |
| • | · | |

Ambient Light Sensor Operation

The INET-CBDEX-P keypads have an ambient light sensor that can be used to automatically configure the backlight to operate in either Day mode or Night mode.

Backlight operation is based on the ambient light level and a programmed threshold. Presets based on the keypad color set the optimum backlight level for Day mode and Night mode.

When presets are used, the following occurs:

- For light-colored keypads with dark engraving, the backlight turns on dim when in Night mode and off when in Day mode.
- For dark-colored keypads, the backlight turns on dim when in Night mode and on bright when in Day mode

NOTE: Backlight levels can also be set manually.

The indicator LEDs automatically adjust their brightness based on ambient light, becoming bright when the keypad is well lit and becoming dim when the room is dark.

When two or more keypads are to be installed side by side, ensure that the backlights on all units are in sync. For syncing to occur, there are signals available on the programming symbol to allow one unit to act as the master backlight controller and the rest as slaves. Refer to the help file for more information.

Troubleshooting

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

| TROUBLE | POSSIBLE CAUSE(S) | CORRECTIVE ACTION |
|--|---|---|
| The keypad does not function. No LEDs turn on when a button is pressed. | The keypad is not receiving power. | Check the circuit breaker. Check the wiring to verify that the keypad is not connected to a switch leg. |
| | The program is incorrect. | Check that the program is driving the LED indicators. |
| The keypad does not function. All LEDs blink when a button is pressed. | The keypad is not acquired by a gateway. | Perform the acquire process. |
| The keypad does not function. All LEDs blink three times when a button is pressed. | The keypad is not communicating with the gateway. | Ensure that the gateway is powered. |
| | | Ensure that the keypad is within range of the gateway or other operational infiNET EX devices. |

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



As of the date of manufacture, the device has been tested and found to comply with specifications for CE marking.

C €Federal Communications Commission (FCC) Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

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.

Industrie Canada (IC) Déclaration de conformité

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.

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.

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

The specific patents that cover Crestron products are listed at patents.crestron.com.

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

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Crestron Electronics, Inc. 15 Volvo Drive Rockleigh, NJ 07647 Tel: 888.CRESTRON Fax: 201.767.7576 www.crestron.com Installation & Operation Guide - DOC. 6992E (2027651) 04.16 Specifications subject to change without notice.