TX-E121 Command Button – Installation Instructions

interlogix
United Technologies

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Description (See reverse side for product warnings and disclaimers)

The TX-E121 Command Button allows for up to 3 different commands, scenes, and/or automations to be triggered through three different button pressing sequences. To the security panel, the button appears as 3 door/window sensor zones, each with their own unique TX-ID (located on the printed card included in the box). Depending on the security panel's capability and/or the capability of the interactive services utilized with the panel, triggering any of the Command Button's 3 zones can be set up as the initiating action to then trigger a pre-configured automation or rule.

Figure 1: TX-E121 Command Button
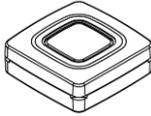
Enrolling

Keep in mind that to the panel, each command appears as a door/window sensor open, followed by an automatic restoral. When enrolling the device, it is recommended to name each zone accordingly so they can easily be assigned to the scene of your choice. For instance, zone #1 = "CB1 ST" (command button single tap), zone #2 = "CB1 DT" (for double tap), and zone #3 = "CB1 PH" (for press and hold).

To enroll the command-button into the panel utilizing the panel's "Learn Mode" procedure, the sensor needs to be placed into enrollment mode. To enter enrollment mode on the button, follow these steps:

1)   Press and hold the button for approximately 10 seconds. During this 10 second time frame, the LED will blink three times, then remain on for 3 more seconds. Continue holding down the button and after a total of approximately 10 seconds, the LED will quickly flash 5 times indicating that enrollment mode has been enabled.

2)   With the panel in learn mode, briefly tap the button once to trigger a tamper transmission for zone #1. This should successfully learn it into the panel. If the panel does not respond, wait for the LED to shut off and try pressing the button again, until successful enrollment occurs.

3)   After the panel has recognized the first zone, **be sure to assign it to a zone type that is "chime only".** Because each zone transmits as a door/window sensor, a chime-only zone type is necessary to ensure that the panel does not go into alarm if the system is armed and the end user wishes to activate a particular scene or automation.

- **For Simon, Concord, and NetworX control panels, zone type 25 is recommended.**

- **For Ultrasync control panels, set the sensor type to "Event Only"**

4)   Take note that the command button automatically ends the enrollment mode after 15 seconds of not sending any commands (i.e. after pressing and holding for 10 seconds and verifying enrollment is enabled with the 5 LED flashes, if the button isn't pressed for 15 seconds immediately after the enrollment mode activation, it will revert back to its normal operation of sending open + automatic restorals on button presses vs sending tampers). Depending on how long it takes to set up each zone on the panel after a zone is learned in, you may need to re-enter enrollment mode again (holding down for 10 seconds) when ready to enroll zones 2 and 3.

Operating Instructions

Each of the Command Button's three different command configurations (Single tap, double tap, & press and hold) can be used as the initiating action to trigger a pre-configured scene, automation, or other smart device(s). To learn how to set up scenes/automations, refer to the instructions provided by the panel's interactive services provider.

Briefly tap the button once to trigger an "OPEN" transmission for zone #1. The red LED will flash once, and then re-illuminate, staying illuminated for approximately 3 seconds. During this continual illumination period, the sensor is sending an automatic restoral transmission. Wait until the LED light is no longer illuminated to send another command.

Double tapping the button will trigger an "OPEN" transmission for zone #2. The red LED will flash twice, and then re--illuminate, staying illuminated for approximately 3 seconds. During this continual

illumination period, the sensor is sending an automatic restoral transmission. Wait until the LED light is no longer illuminated to send another command.

Press and hold the button for approximately 3 seconds to trigger an "OPEN" transmission for zone #3. The red LED will flash three times, and then re-illuminate, staying illuminated for approximately 3 seconds. During this continual illumination period, the sensor is sending an automatic restoral transmission. Wait until the LED light is no longer illuminated to send another command.

Mounting

Included with this device is one piece of double sided tape for permanently securing the Command Button in a desired location. Choose a suitable location for the sensor by following the procedure in section "Testing the Sensor" ensuring desired signal strength is achieved.

Where possible, install sensors within 100 ft. (30 m) of the panel. While a transmitter may have an open-air range of 500 ft. (150 m) or more, the environment at the installation site may have a significant effect on operational range. Changing a sensor location may improve wireless communication.

For reliable bonding, ensure the surface is clean and dry. Apply the tape to the backside of the sensor, and then to the desired location. Apply firm pressure for several seconds. When mounting with double sided tape, ensure temperatures are above 50°F and will remain above 50°F for at least 24 hours to ensure proper bond. After 24 hours, the bond will hold at lower temperatures.

Sensor Testing (Test before permanently mounting, as well as weekly)

The sensor test verifies proper communication between the sensor and the panel/receiver. To test the sensor, refer to the specific panel/receiver documentation and do the following:

1)   Put the panel/receiver into sensor test mode

2)   Press the Command Button once – the sensor will then transmit a signal

3)   Listen for the siren beeps to determine the number of packets received (Each beep indicates one packet received, out of 8 total). It is recommended that the panel receives at least 5 out of 8 packets from the desired sensor location. If the panel is consistently receiving less than 5 out of 8 packets from a certain location, try rotating the sensor and/or relocating the sensor to an area where it can achieve better communication.

4)   Exit sensor test mode when proper communication between the sensor and panel/receiver has been verified.

Replacing the Battery

The Command Button comes pre-installed with a single Panasonic CR2032 Lithium coin-cell battery that provides 5 years of battery life under normal usage conditions. When the battery is low, a signal will be sent to the control panel. To replace the battery, do the following:

1)   Insert a small coin (such as a dime) into one of the corner notches of the Command Button and twist to release the top cover from the bottom cover.

2)   Set the top cover aside, and gently remove the circuit board from the bottom case

3)   Flip the circuit board over, revealing the Panasonic CR2032 coin cell battery. Remove the battery and insert a new Panasonic CR2032 battery, ensuring that the positive side (+) of the battery is facing towards the (+) sign indicated on the battery holder

4)   Place the circuit board back into the bottom case with the battery side facing down. Take note that the board will only fit properly into the bottom case in one direction. On one side of the middle of the circuit board is a small notch. This notch should align with a small piece of plastic extending out from the inside edge of the circuit board. When properly inserted, the circuit board will fit snugly and securely inside the bottom case.

5)   Replace the front cover back onto the bottom case.

Specifications

TX-E121

RF Frequency	319.5 MHz – (Crystal Based)
Compatibility	Interlogix 319.5 MHz control panels/receivers
Battery Type	CR2032 (Panasonic)
Typical Battery Life	Up to 5 years at 68° F (20° C)
Operating Temperature Range	32° to 110°F (0° to 43°C)
Supervisory Interval	64 Minutes
Storage Temperature Range	-30 to 140°F (-34 to 60°C)
Dimensions (L x W x H)	1.2 in x 1.2 in x 0.4 in

FCC Compliance Statement

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.

Changes or modifications not expressly approved by UTC Fire and Security could void the user's authority to operate the equipment.

This device complies with Industry Canada license-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.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

Conformément aux exigences d'Industrie Canada en matière d'exposition humaine aux champs de radiofréquences, l'élément rayonnant doit être installé de telle sorte qu'une distance minimale de 20 cm soit maintenue par rapport à la population générale.

FCC: XQC-TXE121
IC: 9863B-TXE121

This Class B digital apparatus complies with Canadian ICES-3B.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Contact information

For contact information, visit us online at www.interlogix.com.
For technical support, see www.interlogix.com/support

Copyright

Trademarks

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Product Warnings and Disclaimers

⚠ **WARNING: CHOKING HAZARD - Small parts. Keep away from children.**

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