

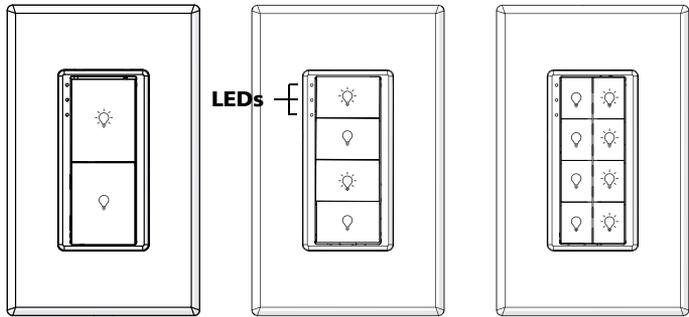
# Echoflex Installation Guide

## Multi-Button Interface Switch Station

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### Overview

The Multi-Button Interface switch station (MBI) uses wireless technology to communicate with compatible Echoflex controllers to manage lighting and dimming commands. The MBI Switch is available in different button configurations, radio frequencies, and colors. Each pair of buttons can be linked to different controllers to manage multiple circuits from one station. Each button is labelled for its function and color LEDs indicate working status.



This document guides you through the installation process and basic setup for all MBI Switch models.

### Prepare for Installation

Echoflex recommends paying special attention to the installation environment:

- For indoor use only. Operating temperature -10°C to 45°C (14°F to 113°F), 5% to 92% relative humidity (non-condensing).
- The switch should be installed in the same space as the device that controls its light fixtures or circuits.
- High density construction materials and large metal appliances or fixtures in the space may disrupt wireless transmissions.
- CR2032 coin cell battery is supplied with the switch. Install the battery or activate it if factory-installed by removing the protective plastic tab in the battery housing. See [Battery Power](#) on [page 3](#).



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### Installation

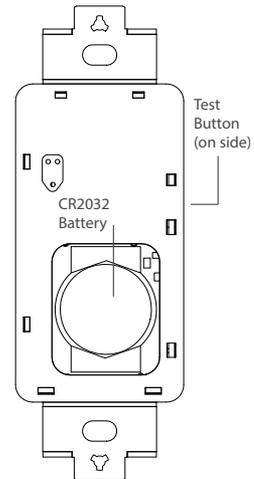
Use hand tools when installing. Over-torquing with a screw gun can damage the switch. Three different mounting options are available:

- Flush mounted to a firm surface with screws and wall anchors (not supplied).
  - On a mud ring using the provided back support plate.
  - Over a line voltage device box with a UL approved barrier (available from Echoflex, order part number 8188K1001-5 or 8188K1002-5).
- 1: Insert a flatblade screwdriver into the slot at the bottom and pry carefully to remove the faceplate.
  - 2: Mount the switch according to the option you selected.
  - 3: Replace the faceplate by aligning it over the notch on the lower edge. Press above and below the buttons until you hear two clicks.
  - 4: Press the buttons on and off to test. A green LED blinks each time to indicate a transmitted message.

### Link to a Controller

The target Echoflex controllers or receivers must be installed, powered, and within range of the switch. Each button pair can be linked to one or more controllers. The following process also can be used to unlink a button pair.

- 1: Press the **[Test]** button to activate Link mode at each target controller. If necessary, refer to the related product documentation.
- 2: Press the On button three times quickly to link the button pair to its target controllers.
- 3: Deactivate Link mode at each target controller before attempting to link to any other controllers.
- 4: Test the operation by pressing the buttons on and off.
- 5: Repeat for each button pair if linking to different controllers.



**Note:** *If the test fails, check the battery or run [Range Confirmation](#) on [page 4](#) to confirm adequate signal strength.*

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### Battery Power

A CR2032 is supplied with the switch. The battery may be factory installed or packed separately according to shipping regulations. Insert the battery if required or remove the protective plastic tab before installing the switch.

During normal operation, if the green LED blinks once, the battery is strong and a message was sent. If the red LED blinks once, the battery is weak but the message was sent. If critically low, the red LED blinks three times and cannot transmit. If the red LED blinks once every minute the battery must be replaced. To replace the battery:

- 1: Remove the faceplate, and then unscrew the switch from its mounting location.
- 2: Insert a flathead screwdriver under the battery clip and gently pry it free.
- 3: Press and hold the On button for 10 seconds to discharge any stored energy.
- 4: Insert the new battery into the clip with the positive side (+) up and press down. If successful, an LED chase sequence will run three times.

### Tests and Settings

The **[Test]** button provides access to a menu of tests and settings. Operational and navigational feedback is provided via the color LEDs. The menu times out after two minutes. To access the menu:

- 1: Remove the faceplate to access the **[Test]** button.
- 2: Press and hold the **[Test]** button until all the LEDs blink.
- 3: Tap the **[Test]** button to cycle through the menu (see table below).
- 4: Press and hold for five seconds to select based on the LED blink. Disregard any other LEDs that blink; they are for factory use only.

Tests and Settings Menu	
Single red blink	Reboot
Single amber blink	Range Confirmation

### Reboot

The LEDs will run a chase sequence three times to confirm successful reboot.

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### Range Confirmation

The Range Confirmation test displays the strength of the signal transmitted to the linked controller. The switch should be linked to only one controller.



**Note:** *Disable all repeaters within range before running the test. See the controller documentation to disable the repeater feature.*

While the test is running, all the LEDs will blink quickly. When the switch receives a range confirmation message from the linked controller, signal strength status is displayed for two seconds (see table below). The result repeats every ten seconds and runs for three minutes.

LED Blink	Signal Strength	Status
Green	-41 to -70 dBm	Best
Amber	-70 to -80 dBm	Good
Red	-80 to -95 dBm	Poor, move closer
None	No linked controllers detected. Move closer or add telegram repeating.	

### Compliance

FCC Part 15.231 (902 MHz model). Contains FCC ID: 5ZV-TCM515U Contains IC: 5713A-TCM515U 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.	The logo for the Federal Communications Commission (FCC), consisting of the letters 'F' and 'C' in a stylized, bold font.
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