Multi-Button Interface Switch Station

Overview

The Echoflex Solutions MBI is a wireless switch station, available in 2, 4, or 8 button formats which communicate wirelessly with Echoflex lighting controllers. Each pair of buttons operates like a single paddle rocker switch driving lights ON/OFF or adjusting dimming levels on linked Echoflex lighting controllers. Linking other switch pairs from the same station to controllers in different areas provides multi-zone control from a single station.

The low profile and screw-less face plate give the MBI a sleek contemporary appearance. The station respond to a button press with a slight audible click and a green LED blink. The MBI is powered by a replaceable coin cell battery and has an expected lifetime of 100,000 actuations over 10 years. When the battery power gets low, the station indicates this condition using a single red LED blink upon any button press.

The station supports Range Confirmation® technology which provides visual indication of signal strength to a linked Echoflex controller via on-board LEDs. The MBI switches are designed to fit in a standard wall outlet or mud ring (back support plate provided for mud ring installation) or they can be flush mounted with screws. For installations over line voltage boxes, a barrier plate kit (separate order item) is available. See Accessory section below for UL approved barrier kits.

Features

- Wireless low profile switch station with screw-less face plate
- Available in 2, 4, or 8 button formats in white, black*, gray* or cream* (* Black, gray and cream colored switch stations may have lead times up to 10 weeks)
- Finger press responds with audible click, a LED blink and a switching/dimming transmission
- Range Confirmation® via tricolored LED indication
- Reliable radio reception range of 24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
- Battery powered by replaceable coin cell
- Flush mount with screws and anchors or double sided tape (not supplied)
- Back support plate provide for installing with a mud ring
- Can be mounted to line voltage electrical boxes. UL approved line voltage barrier is available as a separate order item (white or gray only)
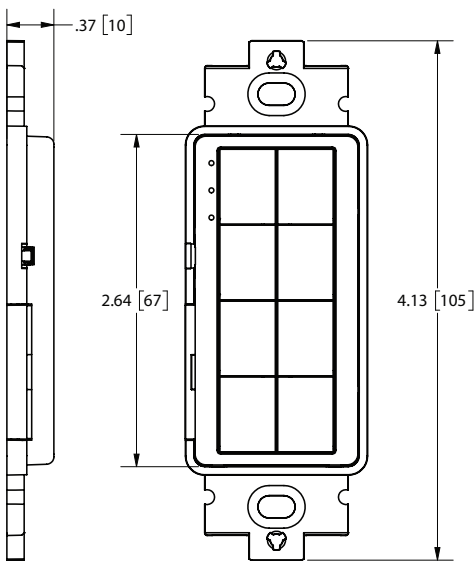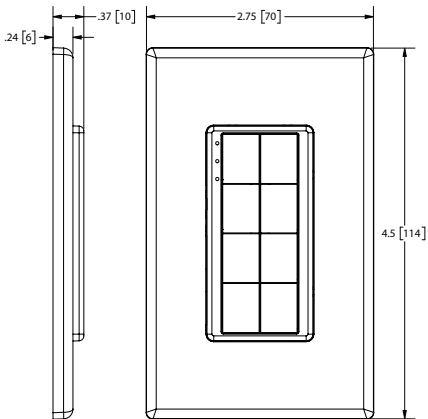
Ordering Information

Description	902 MHz Models	902 MHz PN	868 MHz Models	868 MHz PN
2 Button Multi-Button Interface Switch Station - White	MBI-2UW	8188A1837-5-1	MBI-2YW	8188A1337-5-1
2 Button Multi-Button Interface Switch Station - Black *	MBI-2UB	8188A1837-4-1	MBI-2YB	8188A1337-4-1
2 Button Multi-Button Interface Switch Station - Gray *	MBI-2UG	8188A1837-3-1	MBI-2YG	8188A1337-3-1
2 Button Multi-Button Interface Switch Station - Cream *	MBI-2UC	8188A1837-1-1	MBI-2YC	8188A1337-1-1
4 Button Multi-Button Interface Switch Station - White	MBI-4UW	8188A1838-5-1	MBI-4YW	8188A1338-5-1
4 Button Multi-Button Interface Switch Station - Black *	MBI-4UB	8188A1838-4-1	MBI-4YB	8188A1338-4-1
4 Button Multi-Button Interface Switch Station - Gray *	MBI-4UG	8188A1838-3-1	MBI-4YG	8188A1338-3-1
4 Button Multi-Button Interface Switch Station - Cream *	MBI-4UC	8188A1838-1-1	MBI-4YC	8188A1338-1-1
8 Button Multi-Button Interface Switch Station - White	MBI-8UW	8188A1839-5-1	MBI-8YW	8188A1339-5-1
8 Button Multi-Button Interface Switch Station - Black *	MBI-8UB	8188A1839-4-1	MBI-8YB	8188A1339-4-1
8 Button Multi-Button Interface Switch Station - Gray *	MBI-8UG	8188A1839-3-1	MBI-8YG	8188A1339-3-1
8 Button Multi-Button Interface Switch Station - Cream *	MBI-8UC	8188A1839-1-1	MBI-8YC	8188A1339-1-1

* Note: Black, gray and cream colored switch stations may have lead times up to 10 weeks

Accessories	Model - White	PN	Model - Gray	PN
Single Barrier Kit	PTM365BP1W	8188K1001-5	PTM365BP1G	8188K1001-3
Double Barrier Kit	PTM365BP2W	8188K1002-5	PTM365BP2G	8188K1002-3

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MBI

Dimensional Diagram

Equipment Profile

EEP F6-02-02	Light Control - ON, OFF, dimming

Hardware Specifications

Power Supply	Coin cell - CR2032
Life cycle	Up to 100,000 actuations- Standby battery life up to 10 years* (or as specified by battery manufacturer) * at 25°C (77°F) - extensive use of Range Confirmation® may impact battery life
Input	Test button for Range Confirmation® or reboot
Outputs	LEDs - green, amber and red

Communications

Radio Frequency	902 MHz (U) , 868 MHz (Y)
Antenna	Integrated whip
Transmission Range	24 m (80 ft) - commercial office spaces (typical), up to 100 m (330 ft) line of sight

Mechanical Specifications

Operating Temperature	-10°C to 45°C (14°F to 113°F)
Relative Humidity	5% to 92% RH (non-condensing)
Weight	42g (1.5oz)
Dimensions	115.0 mm x 71mm x 10 mm (4.5 x 2.8x 0.4")
Mounting	Mounting hardware not supplied. Flush mount with screws and wall anchors or wall switch junction box. Back support plate provided for installing over a mud ring. For line voltage applications, order - UL approved barrier kit - see accessories for order info

Agency Listings

RoHS compliant

902 MHz models	FCC Part 15.231 - Remote Control Transmitter IC RSS-210	FC
868 MHz models	CE Marking	CE

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Specifications are subject to change without notification