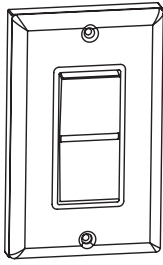# Echoflex Installation Guide
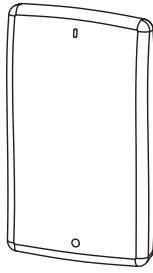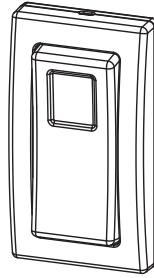## Wireless Switches PTM ETR

Overview

The collection of Wireless Switches (PTM ETR) includes single and dual paddle decorator style, wave style, handheld, and keycard models.
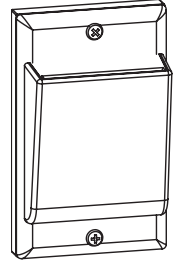
Paddle Switch **Wave Switch** **Handheld Switch** **Keycard Switch**

The Echoflex family of switches uses wireless technology to communicate with compatible lighting controllers for ON/OFF and dimming control. The switches are powered by kinetic energy—no batteries required.

Type	Model	Description
Paddle switch (single and dual)	PTM365 PTM365D	Barrier-mounted. Faceplate, barrier plate, and screws included. Available in white, gray, black, or cream.
Wave switch (single and dual)	ETRS1 ETRS2	Double-sided tape included. Surface-mount optional. Available in white or black.
Handheld switch (single and dual)	ETRH1 ETRH2	Surface-mount optional. Available in white.
Keycard switch	PTM265KCA	Surface-mounted. Available in white.

All switch models are available in 902 MHz or 868 MHz radio frequency.

This document covers installation of all PTM and ETR models. The product package includes the switch and mounting supplies for the model.

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Wireless Switches

Prepare for Installation

To ensure optimal function, consider the installation environment and the following guidelines:

- For indoor use only. Operating temperature -25°C to 65°C (-13°F to 149°F), 5%–92% relative humidity (non-condensing).
- High-density construction materials and large metal appliances or fixtures in the space may disrupt wireless transmissions.
- Install the switch within range of linked receivers or controllers, 24 m (80 ft). Consider adding a repeater to extend reception range.
- Avoid mounting transmitters and receivers on the same wall.

Installation

Use hand tools when installing. Over-torquing with a power tool can damage the switch.

Models that are surface-mounted can be installed on any clean surface using double-sided tape or Velcro®. Mounting holes are also provided for more secure mounting, if required.
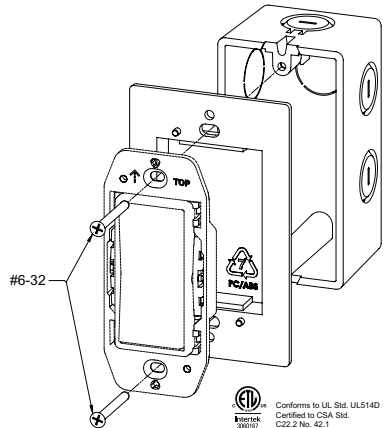
Note: *To adapt the mounting method, order certified barrier plates, which are sold separately (part numbers: 8188K1001 for single-gang and 8188K1002 for dual-gang). Multi-gang surface mounting plates are also sold separately.*

Orient the ON side of the switch paddle at the top. The decorator style switches have an UP arrow and an "I" indicating ON and an "O" indicating OFF. The handheld switches have a recessed area that indicates the ON side of the paddle.

Paddle Switch (PTM365)

The PTM365 model includes a barrier plate designed to mount the switch on an electrical wall box.

1. Install the barrier plate and the switch on the box using the provided #6-32 screws through the two oval mounting holes.
2. Install the provided decorator-style faceplate over the switch.
3. Test the rocker action. An audible click confirms the paddle movement down and then back to the neutral position.

#6-32

TOP

PC/ABS

Conforms to UL Std. UL514D
Certified to CSA Std.
C22.2 No. 42.1

Intertek
3090167

Echoflex Installation Guide
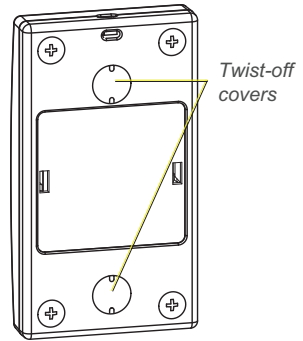## Wireless Switches

Wave Switch (ETRS)

The ETRS model includes clear, double-sided tape to mount the mobile switch to glass when it is not in use. The switch also can be surface-mounted securely to a wall.

1. Pull to remove the front cover and access the two mounting hole targets on the back plate.
2. Mount the back plate to a wall with screws and wall anchors (not provided) and replace the front cover.

Handheld Switch (ETRH)

The ETRH model is designed to be portable, but it also can be surface-mounted to a wall using the two keyholes on the back.

1. Remove the covers to expose the mounting keyholes. Use the two holes for leverage to turn 90 degrees.
2. Install screws and wall anchors (not provided) aligned to 6 cm (2.4 in) on center to hang the switch.

Twist-off covers

Keycard Switch (PTM265KCA)

The PTM265KCA model has a removable faceplate and rear plate for surface-mounting to a wall. The switch is activated by a 85.60x53.98 mm (3.37x2.125 in) card that is 0.76 mm (0.03 in) thick, as specified by ISO/IEC 7810 ID-1.

1. Remove the faceplate screws and assembly that includes the front cover and keycard slot.
2. Use the four mounting holes in the rear mounting plate to attach the switch to a wall surface with screws and wall anchors (not provided).

Note: *The keycard switch can be mounted to an electrical wall box using a barrier partition accessory, which is sold separately.*

3. Reattach the faceplate assembly. Do not over-tighten the screws.
4. Test the card action. An audible click confirms the switch activation with each insert and removal.

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Wireless Switches

Link to a Controller

The compatible target controller must be installed, powered, and within range of the PTM ETR.

Note: *The linking process can be used both to link a device to a controller and to unlink a linked device from a controller.*

1. Press the **[Learn]** button on the controller to activate Link mode. If necessary, refer to the controller product documentation.
2. Do one of the following:
   - For wall and handheld switches: triple-click ON quickly.
   - For keycard switches: activate the switch with a keycard three times quickly.
3. Deactivate Link mode on the controller before attempting to link to any other controllers.

Note: *For dual paddle models, each paddle can be linked to a different controller for multiple control from one wall switch.*

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Wireless Switches

Compliance

For complete regulatory compliance information, see the datasheets for the Wireless Switches at **echoflexsolutions.com**.

FCC Compliance

Echoflex Wireless Switches
(For any FCC matters):
Echoflex Solutions, Inc.
3031 Pleasant View Road
Middleton, WI 53562
+1 (608) 831-4116
echoflexsolutions.com

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.

This equipment has been tested and found to comply with the limits for a Class A 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 instructions, may cause harmful interference to radio communications. Any modifications or changes to this product not expressly approved by Electronic Theatre Controls, Inc. could void the user's authority to operate the product. 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 their own expense.

Contains FCC ID: SZV-PTM210U

ISED Compliance

This device contains a license-exempt transmitter/receiver that complies with Innovation, Science, and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Contains IC ID: 5713A-PTM210U

Conformité ISDE

Cet appareil contient un émetteur/récepteur conforme aux CNR d'Innovation, Sciences et Développement économique Canada (ISDE) applicables aux appareils radio exempt de licence. Son fonctionnement est soumis aux deux conditions suivantes:

1. L'appareil ne doit pas produire d'interférences.
2. L'utilisateur de l'appareil doit accepter toute interférence, même si l'interférence est susceptible d'en compromettre le fonctionnement.

Contient ID IC: 5713A-PTM210U

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