

# WIRELESS SWITCHES

## Installation Guide



This install guide covers all Echoflex Solutions switches, models and descriptions below.

The character *n* in the model number is replaced with U for 902MHz, Y for 868MHz and J for 928 MHz radios. The character *x* is replaced with a color indicator ( W = white, G = gray, B = black, A = light almond, V = ivory).

**PTM365nx** - Single decorator style barrier switch

**PTM365Dnx** - Dual decorator style barrier switch

Available in white and gray. Includes switch, face plate, barrier plate and mounting screws

**PTM265nx** - Single paddle decorator style wireless surface mount switch

**PTM265Dnx** - Dual paddle decorator style wireless surface mount switch

Available in black, light almond and ivory. Includes switch and surface mount plate

**ETRS1nx** - Single paddle wave style wireless surface mount switch

**ETRS2nx** - Dual paddle wave style wireless surface mount switch

Available in white and black. Includes switch and clear double sided tape

**ETRH1nW** - Single paddle hand-held wireless switch, white

**ETRH2nW** - Dual paddle hand-held wireless switch, white

**PTM265KCAnW** - Keycard activated wireless surface mount switch, white

## Product Overview

The switches communicate wirelessly with Echoflex lighting controllers to control the internal relay and/or output dimming level. Common switch applications include basic on/off lighting or dimming.

The energy of a finger press upon the ON or OFF side of the switch paddle generates sufficient energy to transmit the switch event. Additionally, as there is no battery to replace, there is also no maintenance.

Some models have dual paddles which operate identically to the single paddle switches. Each paddle can be linked to different controllers for multiple circuit control from one wall station.

## Preparing to Install

Careful consideration should be made when locating the controllers and switches based on the construction materials in the space and possibility of tenant's furniture disrupting the transmissions. The switch should be installed in the space where the controller device is controlling the light fixtures or circuits.

The surface mount and Wave switch models can be mounted on any surface; wall, desk, cubicle wall, using double sided tape or Velcro™ (not supplied). The switches also have screw holes for more secure mounting requirements.

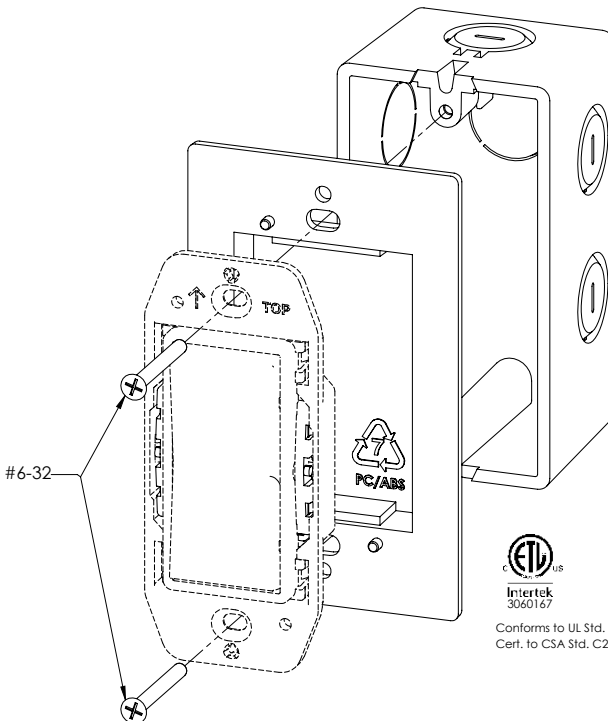
### ON is Up

The ON side of the paddle should be oriented at the top of the mounted switch. The decorator style switches have an arrow pointing towards **UP** plus have an "I" indicating **ON** and "O" indicating **OFF** on the back of the switch (Wave switches also have this on the front). The hand-held switches have a depression indicating the **ON** side of the paddle.

### PTM365 Decorator Style Switches

These models include a barrier plate and are designed to be mounted to electrical wall boxes.

1. Install the barrier plate and the switch on the box through the two oval holes using the provided #6-32 screws.
2. Install the provided decorator style face plate over the switch.
3. Test the operation of the switch. The paddle should return to the neutral position after release. An audible click is expected.



## **PTM265 Decorator Style Surface Mount Switches**

1. Mount the surface mounting plate to the wall surface with screws and wall anchors (not supplied).
2. Mount the switch to the plate with the two short #6-32 screws provided.
3. Install a decorator style faceplate (Leviton 80401 or equivalent, not supplied) over the switch.
4. Test operation of the switch. The paddle should return to a neutral position after release. An audible click is expected.

## **Wave Switches**

These models come supplied with clear double sided tape, you can also remove the front cover of the switch and use the screw guides on the back plate of the switch to mount with screws and wall anchors (not supplied).

## **Hand-Held Switches**

These models have round removable covers on the back (twist off, using small holes for leverage). There are keyholes behind the covers. Use with pre-installed screws (not supplied) - measure 6 cm center to center when placing screws.

## **Keycard Switch**

The keycard switch is activated with an 85.60 x 53.98 mm (3.37 x 2.125") card as specified by ISO/IEC7810 - ID-1 (thickness of 0.76 mm (0.03").

For wall mounting, the keycard switch faceplate must be removed before mounting. For proper operation, the provided rear surface mounting plate must be used when mounting.

1. Remove the faceplate screws and faceplate assembly (includes front cover and insert with key depression tag).
2. There are four mounting holes in the rear mounting plate to attach the switch to a wall surface with screws and wall anchors (not supplied). Note: the keycard switch can be optionally wall box mounted with the barrier partition accessory (sold separately).
3. Reinstall the faceplate assembly. **DO NOT OVER TIGHTEN THE SCREWS.**
4. Test operation of the switch by inserting a card and extracting. There should be an audible click with each insertion and extraction.

## **Linking a Switch to a Controller**

The linking process requires the controller or receiver to be mounted, powered and within range of the switch to be linked. Each receiver can support up to 20-30 switches, depending on receiver model.

1. Activate LEARN or LINK mode at the receiver, if necessary refer to the manufacturers documentation.
2. Wall and handheld switches: triple click **ON** quickly. For keycard switches: insert a room card into the switch three (3) times quickly.
3. Deactivate LEARN mode at the receiver. Test operation of the switch by switching **ON** and **OFF**.

## Equipment Profiles

Single or Dual Paddle Switches	EFP: F6-02-02
Keycard Switch	EFP:F6-04-01

## Accessories

- PTM365BP1\* - Single gang barrier plate for decorator style switches
- PTM365BP2\* - Dual gang barrier plate for decorator style switches
  - \* Available in White or Gray
- PTM3651GF\* - 1 gang flush mounting plate kit (screws included)
  - \* Available in White or Gray
- PTM2651GF\* - 1 gang flush mounting plate for decorator style switches
- PTM2652GF\* - 2 gang flush mounting plate for decorator style switches
- PTM2653GF\* - 3 gang flush mounting plate for decorator style switches
  - \* Available in Black, Light Almond or Ivory (V)
- SC01- Antimicrobial Silicone Sleeve, for use with decorator style switch only

## FCC Part 15.231 - Remote Control Transmitters

The enclosed device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(i.) this device may not cause harmful interference and

(ii.) this device must accept any interference received, including interference that may cause undesired operation.

## IC RSS-210



Devices equipped with 902 MHz radio:  
Contains FCC ID: SZV-PTM210U  
Contains IC: 5713A-PTM210U



Devices equipped with 868 MHz radio:  
Contains FCC ID: SZV-PTM210  
Contains IC: 5713A-PTM210



R206-000355

Devices equipped with 928 MHz radio:  
Contain PTM 210J which complies with the Japanese radio law and is certified according to ARIB STD-T108

## Barrier Plate Certification



UL Standard 514D  
CSA Standard C22.2 # 42-1-13



For more information on Echoflex Solutions, scan the QR code:

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