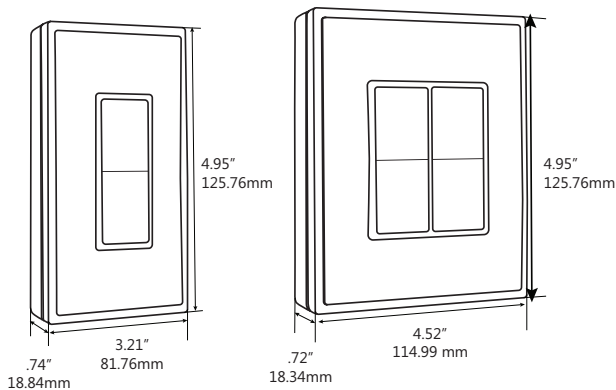


Rocker Pad (Single, Double) for ZigBee Green Power



Package Contents

- Rocker pad
- Wall plate
- Screws and wall anchors

Tools Required

- Power drill, 3/16" bit
- Screwdriver
- Leveling tool

Product Description

Self-powered wireless Rocker Pads provide a flexible and convenient interface for switching, dimming and controlling electrical loads. Energy generated by pressing a rocker pad is harvested and used for RF communications with ZigBee 3.0 devices supporting ZigBee Green Power telegrams.

Single and Double Rocker pads can be surface mounted or installed flush over an existing wall box.

Features Include:

- User interface for switching, dimming (when used with a dimmable controller) and more.
- Harvests energy from linear motion - no batteries.
- Transmits unique IEEE 802.15.4 / ZigBee Green Power message each time pressed or released.

Specifications

Power Supply	Mechanical energy harvesting (power is generated by the motion of pressing the switch)
Transmission Range	50 ft. (15 m)
RF Communications	IEEE 802.15.4 / ZigBee Green Power
Dimensions	Single: 4.95" H x 3.21" W x 0.74" D (126mm x 82mm x 19mm) Double: 4.95" H x 4.52" W x 0.72" D (126mm x 115mm x 18mm)
Weight	Single: 3.9 oz (112g) Double: 5.3 oz (150g)
Environment	<ul style="list-style-type: none"> • Indoor use only • 14° to 104°F (-10° to 40°C) • 20% to 95% relative humidity (non-condensing)
Agency Compliance	FCC, IC

1. Planning

Take a moment to prepare and ensure optimal communications with other system components, and for user convenience.

- Pick a convenient location, perhaps near a door where occupants enter and exit
- Consider the construction materials in the space and obstacles that may interfere with RF signals

2. Installing

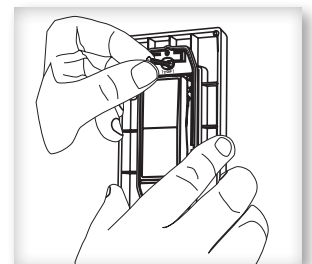
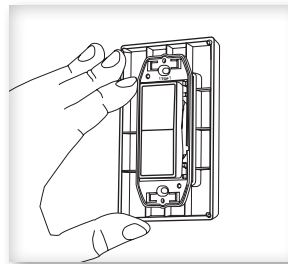
estimated time: 10 minutes



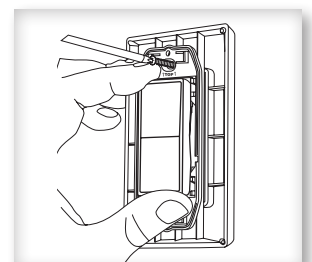
1. Decide where you want to mount the rocker pad. The standard height for wall switches is 49" or 125 cm on center.
2. Remove the wall plate from the rocker pad assembly.
3. Decide which of the two installation options is appropriate.

A. Surface Mounted Installation

- i. Using a level and a pencil, lightly mark 2 small dots to align the top edge of the mounting plate.
- ii. Mark the mounting screw drill points.

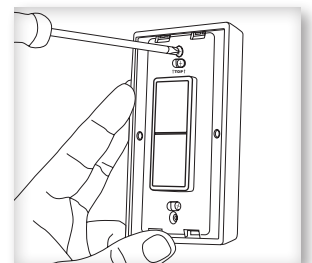


- iv. Drill holes for the wall anchors with a 3/16" drill bit and insert wall anchors.



- v. Insert the top screw(s) loosely and level the back plate.

- vi. Insert the bottom screw(s), and then hand tighten the top screw(s).



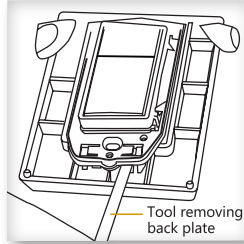
- vii. Attach the wall plate on top of the rocker pad using the two screw holes.

NOTE: For proper assembly, make sure to align the "top" labels on the rocker pad and wall plate

B. Flush Mounted Installation

NOTE: When installing over an existing wall box make sure any bare electrical wires are capped. Where local building codes require the use of UL certified wallplates, please replace the provided wallplate by a certified wallplate made of plastic. Metal wallplates are not recommended, as they would reduce radio coverage!

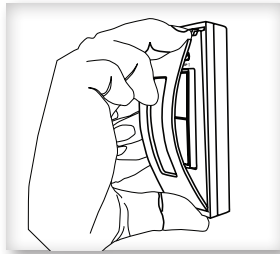
- i. Remove the assembly screws which hold the wall plate, rocker pad, and mounting plate together.
- ii. Use a tool to carefully pry the rocker pad free from the back plate. The back plate is not used for this option.
- iii. Mount the rocker pad over the existing wall box using the two screw holes,



NOTE: For proper assembly, make sure to align the "top" labels on the rocker pad and wall plate.

- iv. Attach the wall plate on top of the rocker pad using the two wall box screw holes.

4. Insert the trim plate tabs in the bottom slots, and then lightly flex the plate to insert top tabs.



TIP: To remove the trim plate, use a flat-head screwdriver to depress the trim plate tabs using the 2 slots on the bottom of the wall plate. Alternatively, use a fingernail to press down along the top groove and flex the tabs out of the slots.

5. Click the rocker pad on and off to test the mechanism.
NOTE: To activate dimming, press and hold; top button to increase, bottom button to decrease.

3. Commissioning

Commissioning is the process to configure the rocker to the right radio channel and learn the rocker pad into a receiving device. ESRPBZ and EDRPZ support all 16 radio channels (Channel 11 ... 26) specified by IEEE 802.15.4 which are used by ZigBee systems.

A. Setting the rocker pad into commissioning mode

The rocker pad can be set into commissioning mode by means of a specific button sequence. This avoids the need for removal from the wall or disassembly.

To do so, select one button of the rocker pad (e.g. the top one in ESRP or the top left one in EDRP). Then press this button long (> 10 seconds), press it short (< 3 seconds) and press it again long (> 10 seconds).

The rocker pad is now in commissioning mode and will transmit a commissioning telegram on the current radio channel. By default this is ZigBee Channel 11.

B. Modifying the radio channel

If your system does not operate on ZigBee Channel 11 then you can adjust the radio channel by clicking the button used for entry into commissioning mode. Doing so will cause the rocker pad to cycle through the supported radio channels starting with ZigBee Channel 11 and ending with ZigBee Channel 26.

The receiver system should provide user feedback so that the user can verify if the correct channel has been reached and linking was successful.

C. Storing the configuration

If the rocker pad has been commissioned into the target system then the configuration has to be stored. To do so, press the opposite button on the rocker pad (bottom button for ESRP, bottom left button for EDRP). The rocker pad is now ready for use.

Troubleshooting

Problem	Solution Checklist
The rocker pad does not generate a message	<ul style="list-style-type: none"> ▪ Verify the rocker pad is installed in the proper orientation
The linked device does not respond to wireless messages	<ul style="list-style-type: none"> ▪ Check for environment or range issues ▪ Verify the device is linked ▪ Verify that the rocker pad operates on the same radio channel as the linked device ▪ Check the transceiver connection and the wiring for errors ▪ Check if appropriate devices are linked according to good system planning



Contains
FCC: SZV-PTM215Z
IC: 5713A-PTM215Z

This device complies with part 15 of the FCC rules and Industry Canada ICES-003. 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.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IMPORTANT! Tous les changements ou modifications pas expressément approuvés par la partie responsable de la conformité ont pu vider l'autorité de l'utilisateur pour actionner cet équipement.