

Battery Powered DIM Zigbee GP Switch



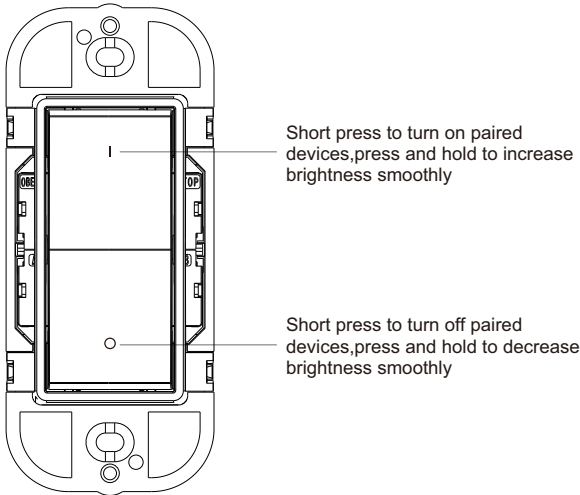
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Product Data

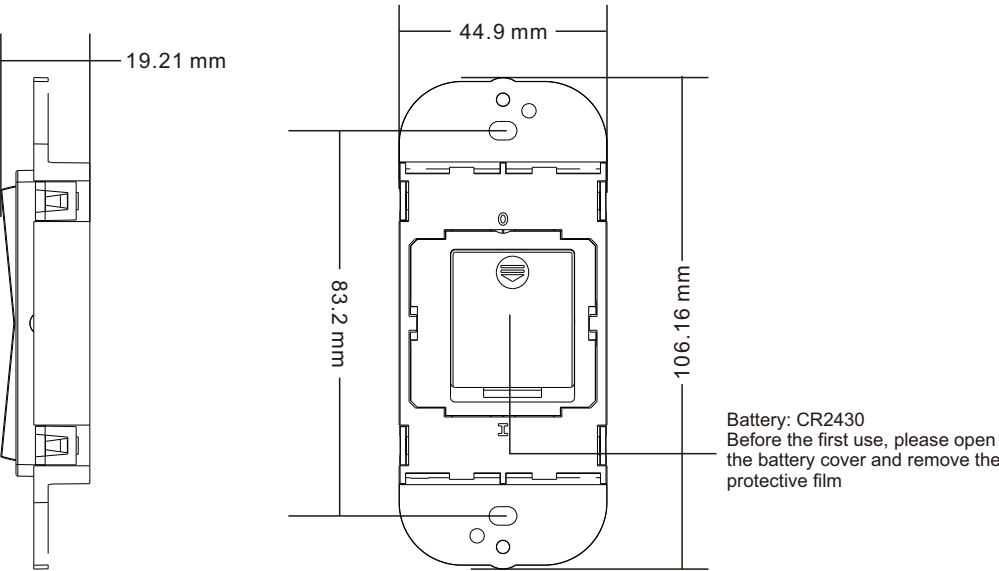
Switch Type	DIM control
Transmission Range	10-30m (typical)
Radio Frequency	2.4GHz (Zigbee channels 11-26)
Power Supply	3V(1xCR2430 battery)
Buttons	2
Dimensions	44.9x106.2x19.2mm
Operating Temperature	-20 °C ~ +45 °C
Working Humidity	10% ~ 95% RH non-condensing
Waterproof Grade	IP20
Warranty	5 years

Important: Read All Instructions Prior to Installation

Function introduction



Front side



Back side

Product Description

The battery powered Zigbee GP switch is a wireless transmitter that communicates with a wide variety of Zigbee compatible systems. The switch uses a CR2430 battery that powers a built-in transmitter. This transmitter sends wireless radio signals that are used to remotely control a compatible system.

Compatible With

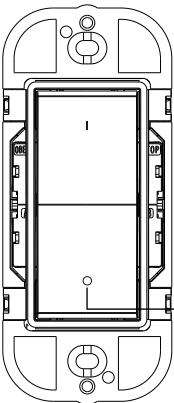
Zigbee Green Power (included in Zigbee 3.0)

Safety & Warnings

- This device contains a button lithium battery that shall be stored and disposed properly
- DO NOT expose the device to moisture.

Operations

Pairing GP Switch to a Compatible Zigbee Light Device(Easy Mode):



Step 1: Do wiring the Zigbee light device according to wiring diagram(please refer to the instruction of the light device that you would like to pair to)

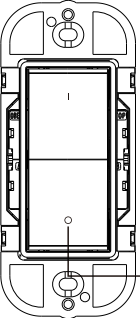


Step 2: Click the "Prog." or "Reset" button on the light device 4 times continuously to set it into pairing to GP switch mode

Step 3: Click any of the 2 buttons on the GP switch 4 times continuously, e.g. button ○ . LED lights connected with the device flicker twice means the light device is paired to the GP switch successfully.

Note: one light device can be paired with max. 20 GP switches.

Delete Pairing to a Paired Zigbee Light Device(Easy Mode):



Step 1: Click the “Prog.” or “Reset” button on the light device 3 times continuously to set it into delete pairing to GP switch mode



Step 2: Click any of the 2 buttons of the paired switch 4 times continuously, e.g. button ○ . LED lights connected with the device flicker 4 times means the pairing to the switch is deleted successfully.

Pairing GP Switch to a Compatible Zigbee Light Device(Standard Mode):

Step 1: activate learning to GP switch mode of the compatible light device (generally our light devices will enter the mode by short pressing “prog.” or “reset” button 4 times, or by resetting power 4 times), please refer to the manual of corresponding light device.

Step 2: put the GP switch into learning mode.

To enter into learning mode, start by selecting one button on the switch. (Use the same button for the entire sequence, pressing any other button will exit the learning mode.)

Next, execute the following sequence:

1. Press and hold the selected button for over 10 seconds, and then release it.
2. Short press the button once, and then release it.
3. Press and hold the button again for over 10 seconds, and then release it

The switch has now entered learning mode.

Wait for approximate 1 second to check whether there is indication on the light device for successful pairing, generally our light device will blink twice to indicate successful pairing.

Exit learning mode on the switch by pressing any other button on the switch after pairing successfully. Just ignore step 3.

If there is no indication, please continue executing step 3.

Step 3: Cycle through the sixteen Zigbee channels

A radio signal needs be sent from the switch to the compatible light device on the correct Zigbee channel, the light device uses one of the sixteen possible channels, automatically set the device. Using the switch, a signal will be sent on each channel until the channel used by the light device is found.

Upon entering learning mode, the signal will be sent by the switch on default channel 11. Please refer to the following chart of the Zigbee channels and the corresponding radio frequencies (in MHZ).

Channel ID	Lower Frequency	Center Frequency	Upper Frequency
11	2404	2405	2406
12	2409	2410	2411
13	2414	2415	2416
14	2419	2420	2421
15	2424	2425	2426
16	2429	2430	2431
17	2434	2435	2436
18	2439	2440	2441
19	2444	2445	2446
20	2449	2450	2451

21	2454	2455	2456
22	2459	2460	2461
23	2464	2465	2466
24	2469	2470	2471
25	2474	2475	2476
26	2479	2480	2481

If there is no indication on the light device for successful pairing, the signal sent by the switch is not on the correct channel, we need to change the switch's channel.

To change the switch’s channel, short press the selected button to move from default channel 11 to the next one. For each such button press, the switch transmits on the next channel.

After each such button press, please wait for approximate 1 second to check whether there is indication on the light device for successful pairing.

If pairing successfully, please exit learning mode on the switch. If channel 26 has been reached, but there is still no indication, it might because the switch has not entered learning mode yet since the very start. We have to repeat the step 2 to put it into learning mode.

Delete Pairing to a Paired Zigbee Light Device(Standard Mode):

Step 1: activate delete learning to GP switch mode of the paired light device (generally our light devices will enter the mode by short pressing “prog.” or “reset” button 3 times, or by resetting power 3 times), please refer to the manual of corresponding light device.

Step 2: put the GP switch into learning mode.

To enter into learning mode, start by selecting one button on the switch. (Use the same button for the entire sequence, pressing any other button will exit the learning mode.)

Next, execute the following sequence:

1. Press and hold the selected button for over 10 seconds, and then release it.
2. Short press the button once, and then release it.
3. Press and hold the button again for over 10 seconds, and then release it

The switch has now entered learning mode.

Wait for approximate 1 second to check whether there is indication on the light device to indicate that pairing is deleted, generally our light device will blink 4 times, which means the pairing is deleted successfully.

Exit learning mode on the switch by pressing any other button on the switch after pairing deleted. Just ignore step 3.

If there is no indication, please continue executing step 3.

Step 3: Cycle through the sixteen Zigbee channels

If there is no indication on the light device to indicate that pairing is deleted, the signal sent by the switch is not on the correct channel, we need to change the switch's channel.

To change the switch’s channel, short press the selected button to move from default channel 11 to the next one. For each such button press, the switch transmits on the next channel.

After each such button press, please wait for approximate 1 second to check whether there is indication on the light device to indicate that pairing is deleted.

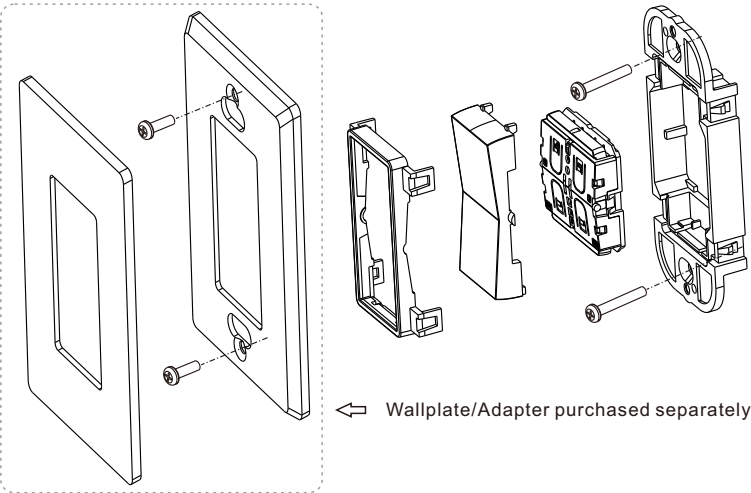
If pairing deleted successfully, please exit learning mode on the switch. If channel 26 has been reached, but there is still no indication, it might because the switch has not entered learning mode yet since the very start. We have to repeat the step 2 to put it into learning mode.

Signal Repeating Function of the Compatible Light Devices

The compatible light devices can repeat the received wireless signal from the switch, only when all light devices are added to the same Zigbee network can they repeat the received signal. There are 3 different situations as follows:

- 1. If you have a gateway controller and light devices, please add all light devices to the gateway first, then pair the GP switch to all light devices one by one.
- 2. If you have only light devices and battery/AC powered Zigbee remote, please set up a Zigbee network using the light devices and Zigbee remote, then pair the GP switch to all light devices one by one.
- 3. If you only have light devices, please use a light device to set up a Zigbee network first, then add other light devices to the network (please refer to the light device manual), then pair the GP switch to other light devices one by one.

Installation



Battery Warnings & Safty

Warnings and Statements:

This product contains a CR Coin Cell Lithium Battery and meets the requirements of the **16 CFR Part 1263**. For your safety and to ensure proper operation, please carefully read and understand the following warnings and statements.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

Statements:

- **INDOOR USE ONLY**
- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Do not install any battery other than CR2430 or its equivalent.
- Ensure the CR2430 operates at the nominal battery voltage (3VDC).
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.
- If the battery leaks, do not touch or smell it, wipe the leakage from the battery compartment, and then replace the battery with a new one.
- If a battery leaks and the material contacts your skin or clothing, flush the exposed area thoroughly with running water. In case of eye contact, flush thoroughly with copious amounts of clean running water and seek immediate medical assistance.

Battery information:

Battery	Battery Type	Operation Voltage	Diameter
CR2430	Button Cell	3VDC	24.5mm(0.965inch)