ZigBee 2-Gang In-wall Switch
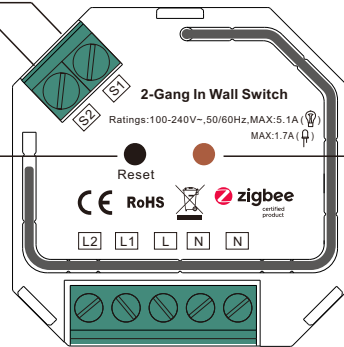
zigbee certified product CE FC RoHS COMPLIANT

Important: Read All Instructions Prior to Installation

Function introduction

2 channels switch input, to control 2 channels load separately

"Reset" Key: for network pairing, touchlink, factory reset of the switch

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A

Reset

CE RoHS zigbee certified product

L2 L1 L N N

LED indicator: stays off if the device is not added to a Zigbee network, stays solid on after the device is added to a network. Same indication as connected load when commissioning the device: network pairing, touchlink, factory reset

2 channels load output

AC power input

Product Data

Input Voltage	Output Voltage	Output Channel	Max. Load	Size(LxWxH)
100-240VAC	100-240VAC	2 Channels	Resistive load: max. 5.1A/CH Capacitive load: max. 1.7A/CH	45.5x45x20.3mm

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	LED lamps with transformers	390W/CH @ 230V 180W/CH @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to switch.
	LED drivers	390W/CH @ 230V 180W/CH @ 110V	Maximum permitted number of drivers is 390W divided by driver nameplate power rating.
	Incandescent lighting, HV Halogen lamps	1170W/CH @ 230V 560W/CH @ 110V	
	Low voltage halogen lighting with electronic transformers	390W/CH @ 230V 180W/CH @ 110V	

Over Current Protection

• When connecting resistive load and total load is over 8.1A, the relay will be forced to off and protected.

• 2-gang ZigBee in-wall switch based on latest ZigBee 3.0 protocol
• 100-240VAC wide input and output voltage
• Supports resistive loads and capacitive loads
• 2 channels output, max. load 5.1A/CH
• Input and output with screw terminals, safe and reliable
• Enables to control ON/OFF of connected load
• ZigBee device with 2 endpoints which can be controlled separately
• ZigBee end device that supports Touchlink commissioning
• Can directly pair to a compatible ZigBee remote via Touchlink without coordinator
• Supports self-forming zigbee network without coordinator and add other devices to the network
• Supports find and bind mode to bind a ZigBee remote
• Supports zigbee green power and can bind max. 20 zigbee green power switches
• Compatible with universal ZigBee gateway products
• Can be controlled by universal single wire push switch, 2 channels can be controlled separately by 2 switches
• Active power and energy metering functionality
• Mini Size, Easy to be installed into a standard wall box
• Radio Frequency : 2.4GHz
• Waterproof grade: IP20

Safety & Warnings

• DO NOT install with power applied to device.
• DO NOT expose the device to moisture.

ZigBee Clusters the device supports are as follows:

Endpoint 0x01 - Channel 1:

• 0x0000: Basic   • 0x0003: Identify   • 0x0004: Groups   • 0x0005: Scenes   • 0x0006: On/off

Endpoint 0x02 - Channel 2:

• 0x0000: Basic   • 0x0003: Identify   • 0x0004: Groups   • 0x0005: Scenes   • 0x0006: On/off

Endpoint 0x0b - Whole device:

• 0x0000: Basic   • 0x0702: Simple Metering   • 0x0b04: Electrical Measurement   • 0x0b05: Diagnostics
• 0x1000: ZLL Commissioning   • 0x0019: OTA

Operation

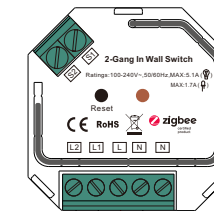**1.Do wiring according to connection diagram correctly.**

2.This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)
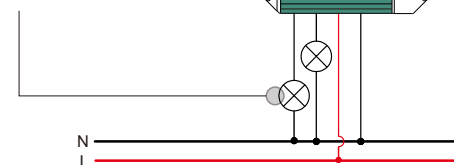
Step 1: Remove the device from previous zigbee network if it has already been added to, otherwise pairing will fail. Please refer to the part "**Factory Reset Manually**".

Step 2: From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.

Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A
Reset
CE RoHS zigbee certified product
L2 L1 L N N

Step 3: power on the device, it will be set into network pairing mode (connected light flashes twice slowly), the network pairing mode will last until the device is added to a zigbee network.
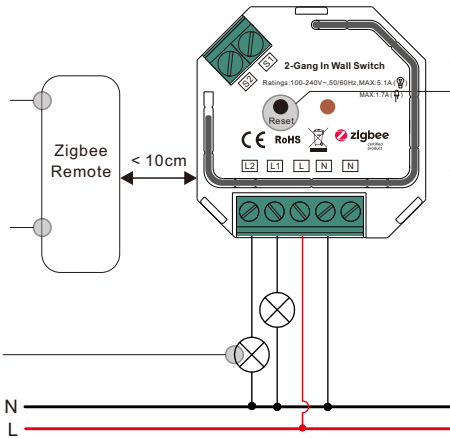
N
L

4. TouchLink to a Zigbee Remote

Step 2: Bring the remote or touch panel within 10cm of the lighting device.

Step 3: Set the remote or touch panel into Touchlink commissioning, please refer to corresponding remote or touch panel manual to learn how.
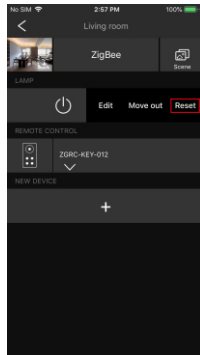
Step 4: There shall be indication on the remote for successful link and connected light will flash twice.

Step 1: Method 1: Short press "Reset" button 4 times (or reset power of the device 4 times) to start Touchlink commissioning immediately, 180S timeout, repeat this step. **Method 2:** Add the device to a zigbee network, it will be set into Touchlink commissioning immediately after added, 180S timeout. Once timeout, reset power of the device to set it into touchlink commissioning again.

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A1
Reset
CE RoHS zigbee
L2 L1 L N N

Zigbee Remote < 10cm

N
L

Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.
   2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.
   3) To control by both gateway & remote, add remote and device to network first then TouchLink.
   4) After TouchLink, the device can be controlled by the linked remotes.

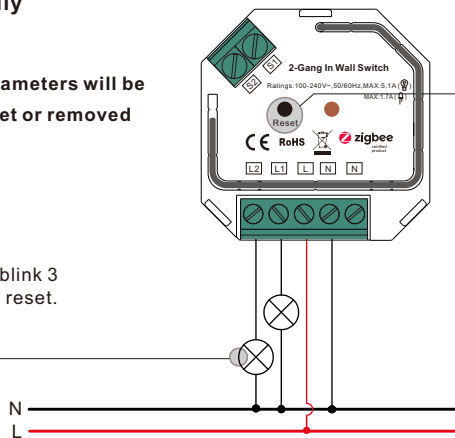## 5. Removed from a Zigbee Network through Coordinator or Hub Interface

From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

6. Factory Reset Manually

Note: All configuration parameters will be reset after the device is reset or removed from the network.

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A1
Reset
CE RoHS zigbee
L2 L1 L N N

Step 1: Short press "Reset." key for 5 times continuously or reset power of the device for 5 times continuously if the "Reset" key is not accessible.
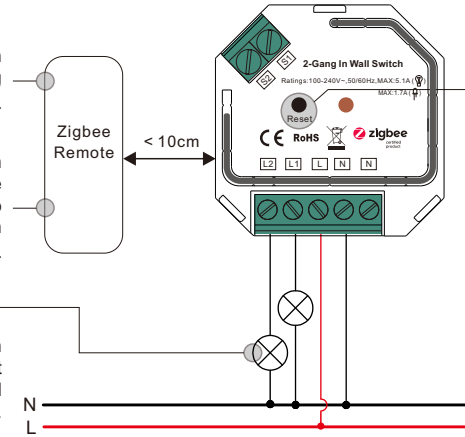
Step 2: Connected light will blink 3 times to indicate successful reset.

N
L

7. Factory Reset through a Zigbee Remote (Touch Reset)

Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.

Step 2: Bring the remote or touch panel within 10cm of the lighting device.

Step 3: SSet the remote or touch panel into Touch Reset procedure to reset the device, please refer to corresponding remote or touch panel manual to learn how.

Step 4: There shall be indication on the remote and connected light flashes 3 times for successful reset.
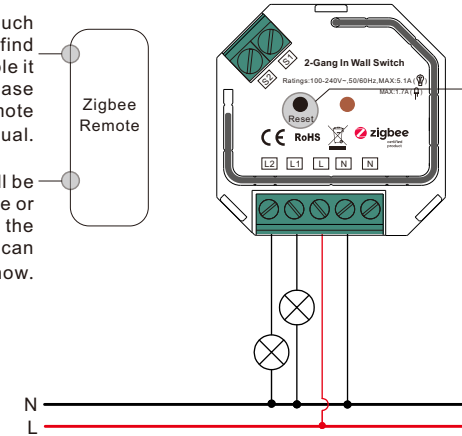
2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A1
Reset
CE RoHS zigbee
L2 L1 L N N

Zigbee Remote < 10cm

Step 1: Short press reset button 4 times to start TouchLink Commissioning, 180 seconds timeout, repeat this step.

N
L

8. Find and Bind Mode
Note: Make sure the device and remote already added to the same zigbee network.

Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

Step 3: There shall be indication on the remote or touch panel that it bind the device successfully and can control it then.to learn how.

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
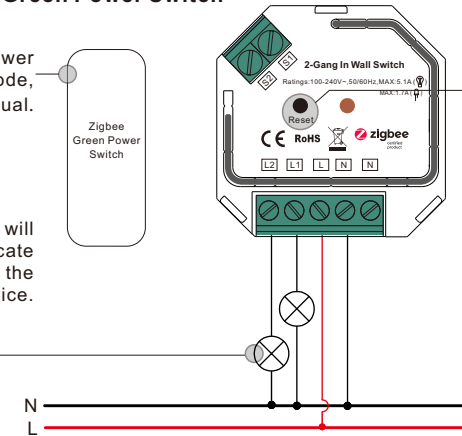MAX:1.7A1
Reset
CE RoHS zigbee
L2 L1 L N N

Zigbee Remote

Step 1: Short press "Reset." button 3 times (Or reset power of the device (initiator node) 3 times) to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat this step.

N
L

9. Learning to a Zigbee Green Power Switch

Step 2: Set the green power switch into Learning mode, please refer to its manual.

Step 3: Connected light will flash twice to indicate successful learning. Then the switch can control the device.

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A1
Reset
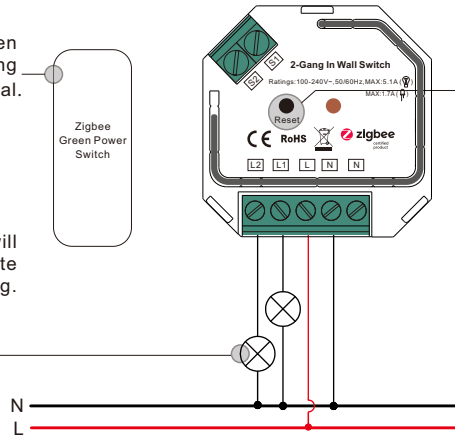CE RoHS zigbee
L2 L1 L N N

Zigbee Green Power Switch

Step 1: Short press "Reset." button 4 times (Or reset power of the device 4 times) to start Learning to GP switch mode (connected light flashes twice), 180 seconds timeout, repeat this step.

N
L

Note: Each device can learn to max. 20 zigbee green power switches.
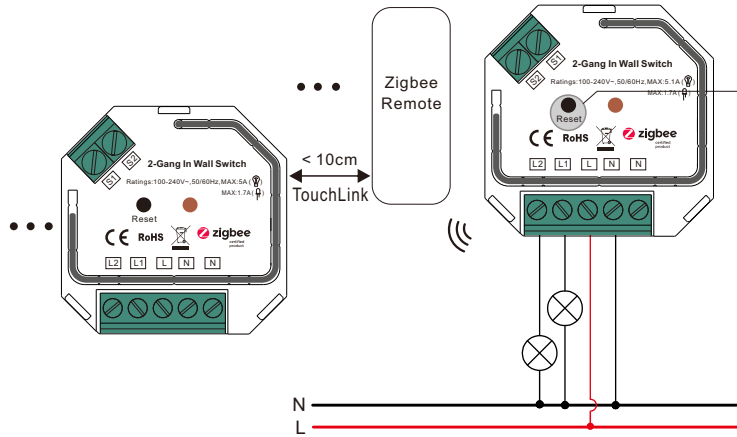
10. Delete Learning to a Zigbee Green Power Switch

Step 2: Set the paired green power switch into Learning mode, please refer to its manual.

Zigbee Green Power Switch

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A
Reset
CE RoHS zigbee certified product
L2 L1 L N N

Step 1: Short press "Reset." button 3 times (Or reset power of the device 3 times) to start delete Learning to GP switch mode (connected light flashes slowly), 180 seconds timeout, repeat this step.

Step 3: Connected light will flash 4 times to indicate successful deleting.

N
L

11. Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)

Zigbee Remote

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A
Reset
CE RoHS zigbee certified product
L2 L1 L N N

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5A
MAX:1.7A
Reset
CE RoHS zigbee certified product
L2 L1 L N N

< 10cm
TouchLink

Step 1: Short press "Reset." button 4 times (Or reset power of the device 4 times) to enable the device to setup a zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat this step.

N
L

Step 2: Set another device or remote or touch panel into network pairing mode and pair to the network, refer to their manuals.

Step 3: Pair more devices and remotes to the network as you would like, refer to their manuals.

Step 4: Bind the added devices and remotes through Touchlink so that the devices can be controlled by the remotes, refer to their manuals.

Note: 1) Each added device can link and be controlled by max. 30 added remotes.

2) Each added remote can link and control max. 30 added devices.

12. OTA

The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

Wiring Diagram

Notes for the diagrams:
L - terminal for live lead
N - terminal for neutral lead
S1 - terminal for switch key No. 1
S2 - terminal for switch key No. 2
L1 - output terminal no. 1 for light load
L2 - output terminal no. 2 for light load
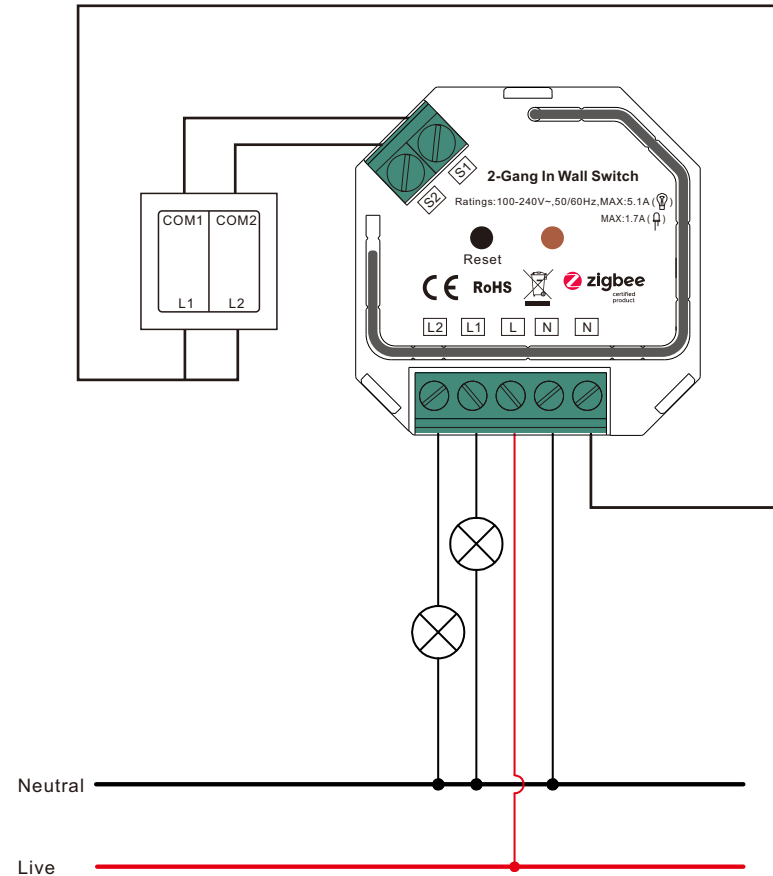
Supported Switch Types:
The switch types this device supports can be configured by factory setting:
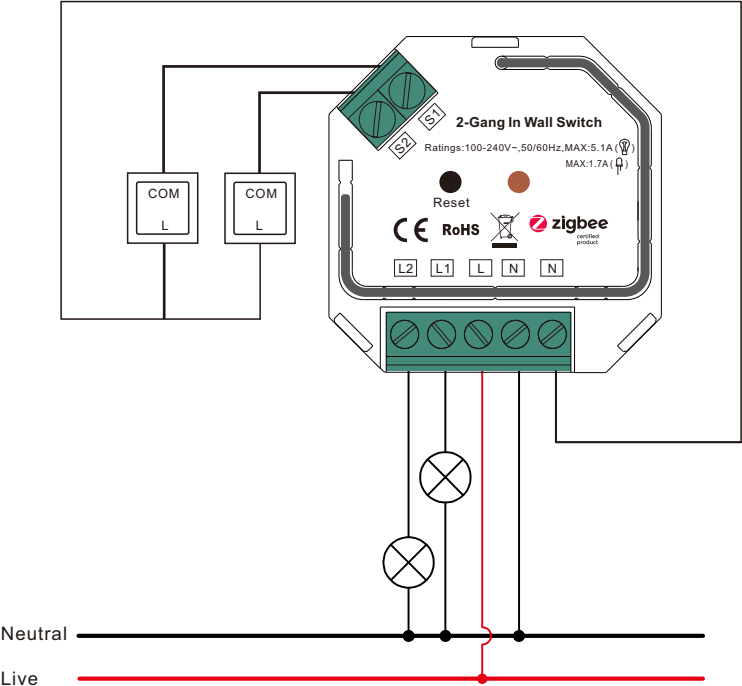**1. Push Switch (factory default setting)**
2. Toggle On/Off Switch (can be configured by factory setting upon request)

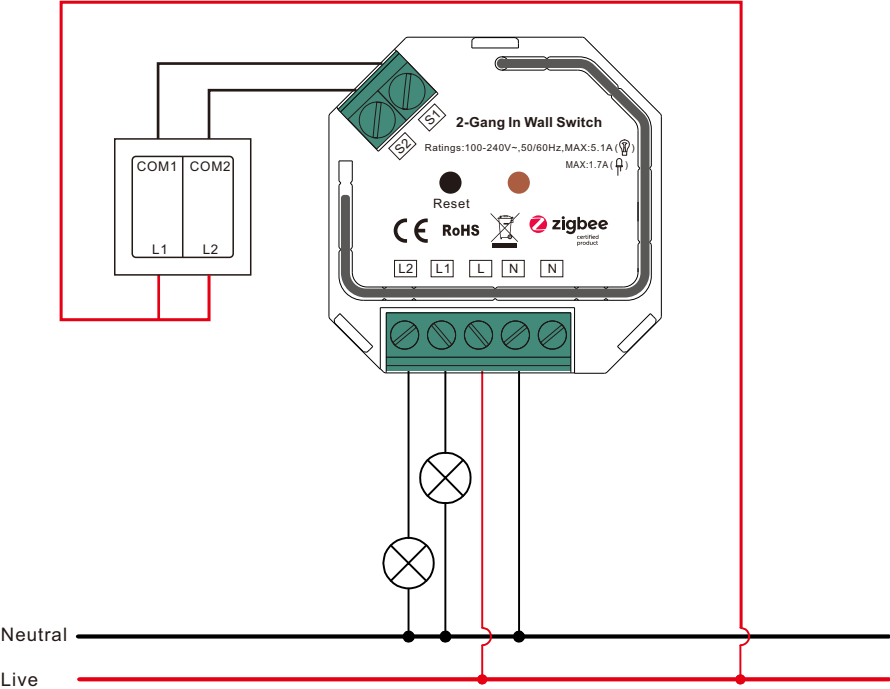**1. Wiring Method 1: External Switches Control through Neutral Lead**

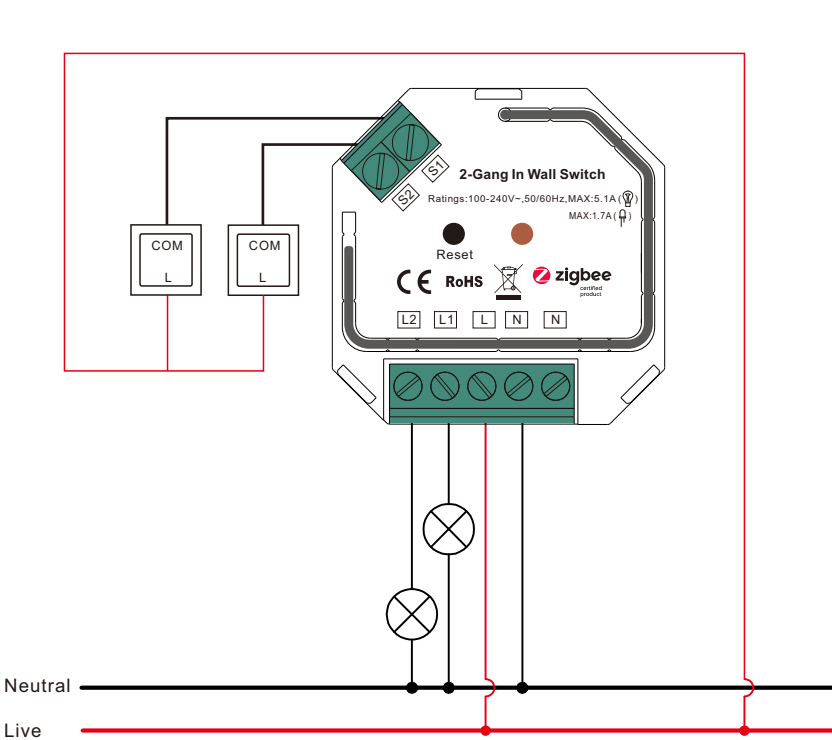**1.1. With 1PC 2-Gang 1-Way Switch**

COM1 COM2
L1 L2

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A
Reset
CE RoHS zigbee certified product
L2 L1 L N N

Neutral

Live

1.2. With 2PCS 1-Gang 1-Way Switches

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A

Reset

CE RoHS zigbee certified product

COM L

COM L

L2 L1 L N N

Neutral

Live

2. Wiring Method 2: External Switches Control through Live Lead

2.1. With 1PC 2-Gang 1-Way Switches

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A

Reset

CE RoHS zigbee certified product

COM1 COM2

L1 L2

L2 L1 L N N

Neutral

Live

2.2. With 2PCS 1-Gang 1-Way Switches

2-Gang In Wall Switch
Ratings:100-240V~,50/60Hz,MAX:5.1A
MAX:1.7A

Reset

CE RoHS zigbee certified product

COM L

COM L

L2 L1 L N N

Neutral

Live

Product Dimension

45.5 mm

45 mm

20.3 mm