# 2-Key Zigbee Push Button Smart Switch

zigbee certified product · PUSH · CE · FC · RoHS COMPLIANT

*Important:* *Read All Instructions Prior to Installation*

## Function introduction

On button, short press to turn on



Off button, short press to turn off

"Reset" Key: for zigbee network pairing, touchlink or factory reset the device

12.8

86.0

86.0



**Smart Switch**
**SR-ZG2835KAC-NK2-SW**
Ratings: 100-240V~, 50/60Hz,
10A, 2300W max.
• tc=75℃
ta=-20℃-+50℃

CE RoHS zigbee certified product

L L ⊗ S N

29.6

Live lead input
Load output
Neutral input
Push switch input
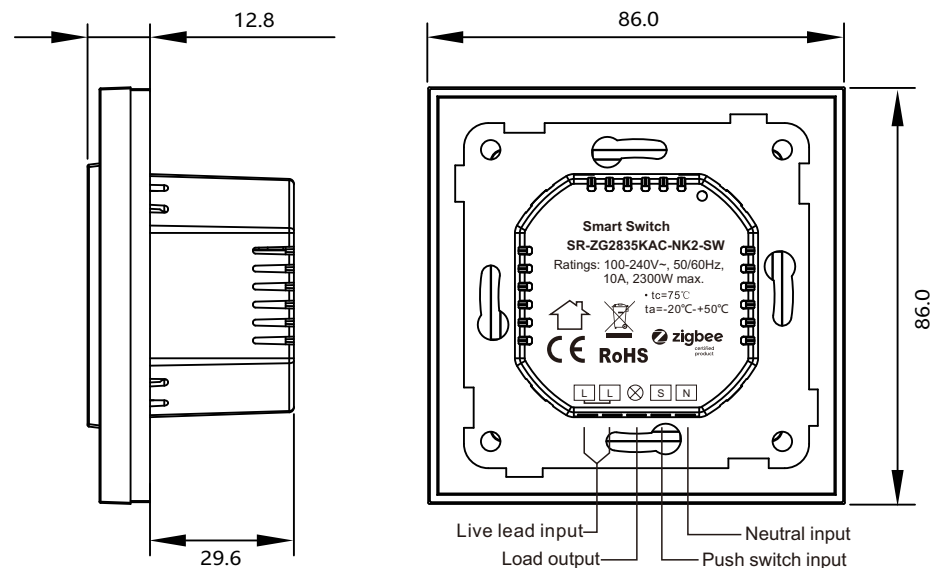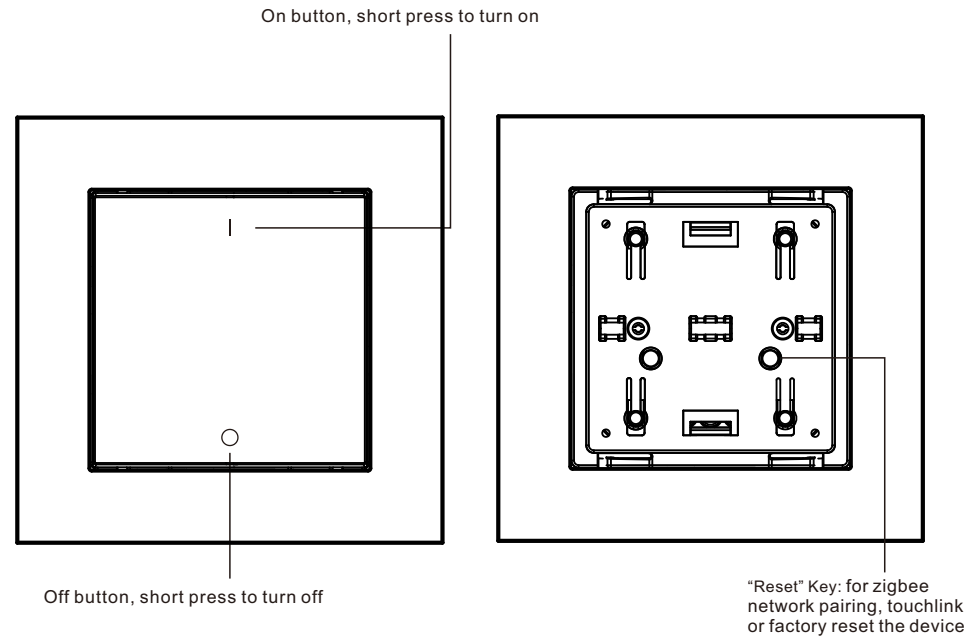
## Product Data

| Input Voltage | Output Voltage | Output Current | Minimum Load | Max. Number of Parallel Connected Load | Size(LxWxH) |
|---|---|---|---|---|---|
| 100-240VAC | 100-240VAC | 10A max | No minimum load requirement with neutral | 9 | 86x86x42.4mm |

| Compatible Load Types | | | |
|---|---|---|---|
| Load Symbol | Load Type | Maximum Load | Remarks |
| | LED lamps with transformers | 690W @ 230V 345W @ 110V | Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to the switch. |
| | LED drivers | 690W @ 230V 345W @ 110V | Maximum permitted number of drivers is 690W divided by driver nameplate power rating. |
| | Incandescent lighting, HV Halogen lamps | 2300W @ 230V 1150W @ 110V | |
| | Low voltage halogen lighting with electronic transformers | 690W @ 230V 345W @ 110V | |

## ZigBee Clusters the device supports are as follows:

**Input Clusters**
• 0x0000: Basic    • 0x0003: Identify    • 0x0004: Groups    • 0x0005: Scenes    • 0x0006: On/off
• 0x0702: Simple Metering    • 0x0008: Level Control    • 0x0b04: Electrical Measurement    • 0x0b05: Diagnostics

**Output Clusters**
• 0x0019: OTA

• ZigBee push button AC switch based on latest ZigBee 3.0 protocol
• 100-240VAC wide input and output voltage
• Supports resistive loads, capacitive loads or inductive loads
• 1 channel output, max. load 10A
• Enables to control ON/OFF of connected light source
• Supports energy metering, real time energy consumption can be monitored
• ZigBee device that supports Touchlink commissioning
• Can be controlled by zigbee gateway, zigbee remote and local push buttons
• 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 remotes
• Compatible with universal ZigBee gateway products
• With push switch input, can be controlled by universal AC push switches
• Standard size, can be compatible with existing EU standard frames, and installed into standard size 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.

## 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.
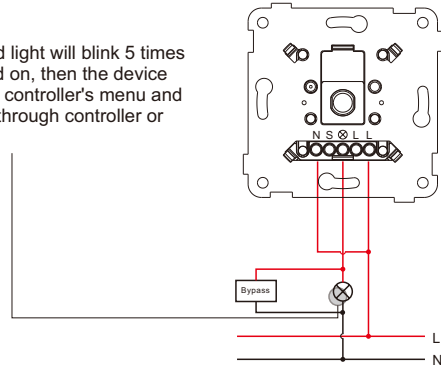
**Step 3**: Reset power of the device from master breaker to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat this step.



## 4. TouchLink to a Zigbee Remote
**Step 1: Method 1**: Short press "Reset" button 4 times (or reset power of the device 4 times from master breaker) to start Touchlink commissioning immediately under any circumstances, 180S timeout, repeat this step.
**Method 2**: Reset power of the device from master breaker, Touchlink commissioning will start after 15S if it's not added to a zigbee network, 165S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat this step.

**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.
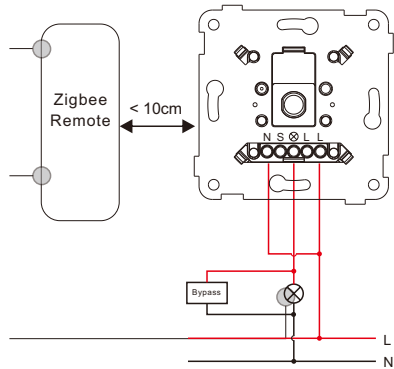


**Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.**
**2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.**
**3) Control with both gateway and remote, add remote and device to network first then TouchLink.**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

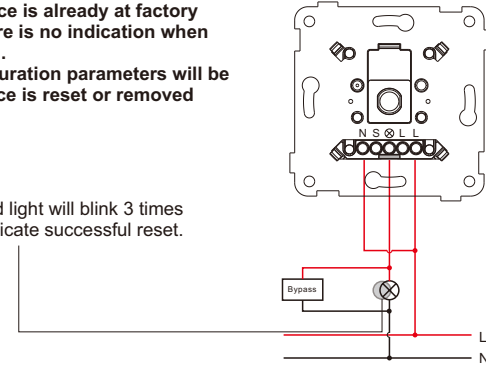## 5. Removed from a Zigbee Network through Coordinator or Hub Interface
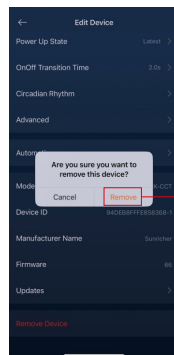


From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

## 6. Factory Reset Manually

**Note: 1) If the device is already at factory default setting, there is no indication when factory reset again .**
**2) All configuration parameters will be reset after the device is reset or removed from the network.**

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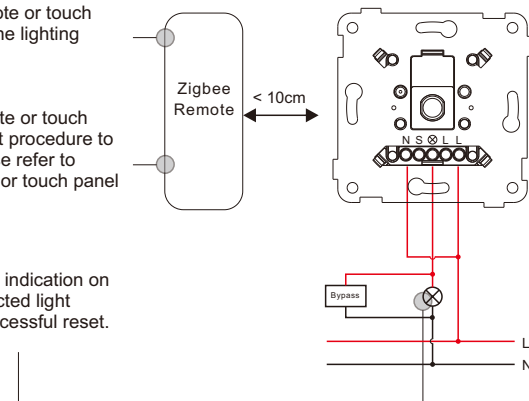
**Step 2**: Connected light will blink 3 times to indicate successful reset.



## 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.
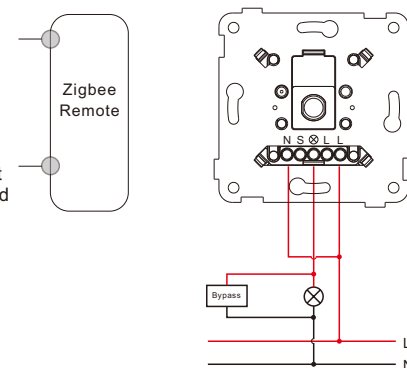
**Step 1**: Short press "reset" button 4 times (Or reset power of the device from master breaker) to start TouchLink Commissioning, 180 seconds timeout, repeat this step.

**Step 4:** There shall be indication on the remote and connected light flashes 3 times for successful reset.



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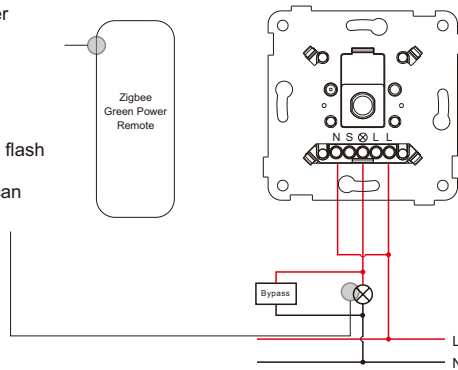
**Step 1**: Short press "Reset." button 3 times (Or reset power of the device (initiator node) 3 times from master breaker) to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat this step.

## 9. Learning to a Zigbee Green Power Remote

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

**Step 3**: Connected light will flash twice to indicate successful learning. Then the remote can control the device.
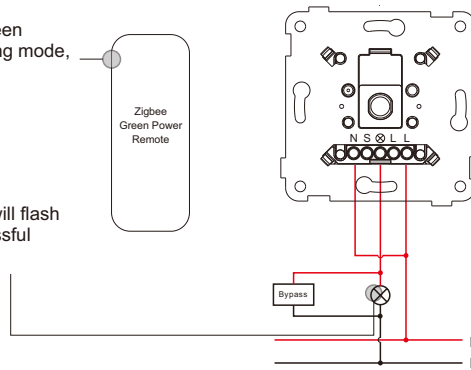
Zigbee Green Power Remote

N S ⊗ L L

Bypass ⊗

L
N

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

**Note: Each device can learn to max. 20 zigbee green power remotes.**

## 10. Delete Learning to a Zigbee Green Power Remote

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

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

Zigbee Green Power Remote

N S ⊗ L L

Bypass ⊗

L
N

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

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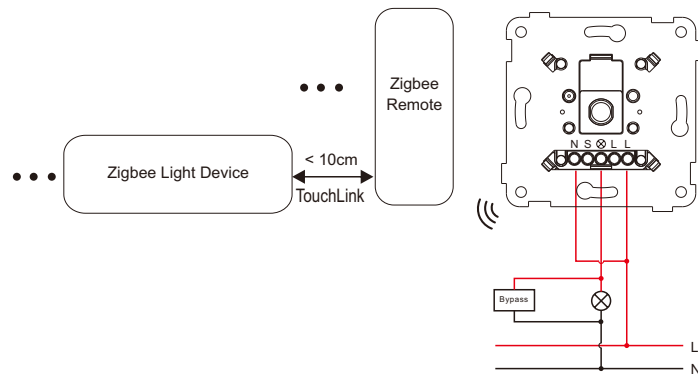
Zigbee Remote

Zigbee Light Device

< 10cm
TouchLink

N S ⊗ L L

Bypass ⊗

L
N

**Step 1**: Short press "Reset." button 4 times (Or reset power of the device 4 times from master breaker) 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.

**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
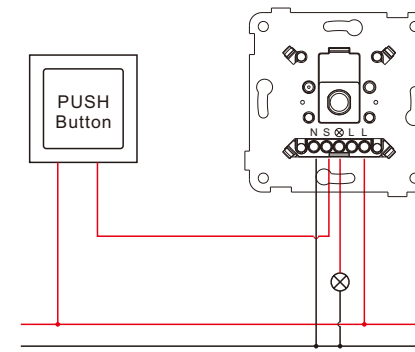⊗ - output terminal of the dimmer (controlling connected light source)
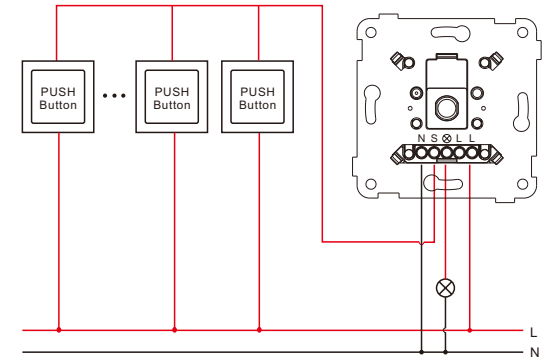**S** - terminal for push switch

**Controlled by a push switch:**
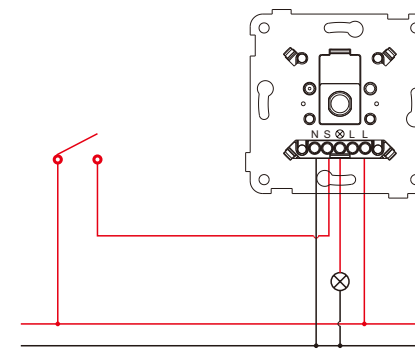Once connected with a push switch, click the push switch to switch ON/OFF

### (1) With Push Switch

**Single push switch wiring**

PUSH Button

N S ⊗ L L

⊗

L
N

**Multiple push switches wiring for multiple control points**

PUSH Button ··· PUSH Button   PUSH Button

N S ⊗ L L

⊗

L
N

### (2) With Normal On/Off Switch

N S ⊗ L L

⊗

L
N

**Installation**

① ② ③

④ ⑤ ⑥

⑦