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SUPERLED SR-ZG9100A-S ZigBee In Wall Smart Switch User Manual

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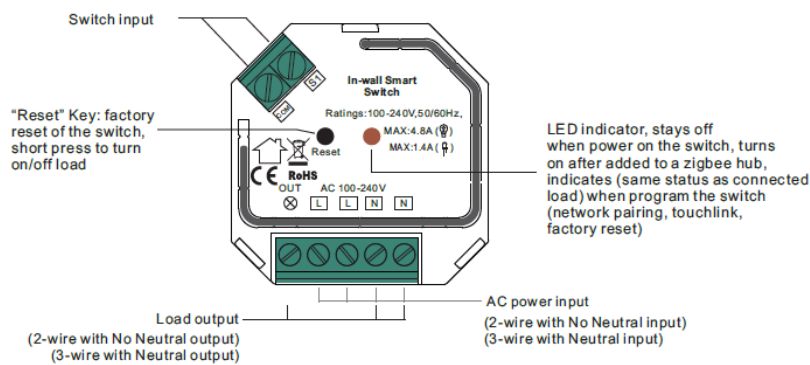
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SUPERLED

SUPERLED SR-ZG9100A-S ZigBee In Wall Smart Switch



Function introduction

Input Voltage	Output Voltage	Output Current	Size(LxWxH)
		Resistive load: max. 4.8A	
100-240VAC	100-240VAC	Capacitive/Inductive load: max. 1.4A	45.5x45x20.3mm

- ZigBee in wall smart 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 up to 4.8A
- Input and Output with Screw Terminals, Safe and Reliable
- Enables to control ON/OFF of connected light source
- 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 feature and can bind max. 20 zigbee green power remotes
- Compatible with universal ZigBee gateway products
- Mini Size, Easy to be Installed into a standard size wall box
- Radio Frequency : 2.4GHz
- Waterproof grade: IP20

Main Features

- Can operate under two-wire connection with no neutral lead or three-wire connection with neutral lead
- Soft start function,
- Works with various types of switches – momentary, toggle, three-way, etc.
- Active element: semiconductor electronic switch,
- To be installed in wall switch boxes of dimensions allowing for installation, conforming to provisions of applicable regulations,
- The Bypass is an extension unit.

The switch operates under the following loads

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- Compact fluorescent CFL tube lamps with electronic ballast
- Fluorescent tube lamps with electronic ballast
- Supported light sources (power factor > 0.5) with minimal power of 3W using the Bypass (depending on the type of load)

ZigBee Clusters the device supports are as follows: Input Clusters

- 0x0000: Basic
- 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off
- 0x0702: Simple Metering
- 0x0b05: Diagnostics
- 0x0b04: Electrical Measurement

Output Clusters

- 0x0019: OTA

Safety & Warnings

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

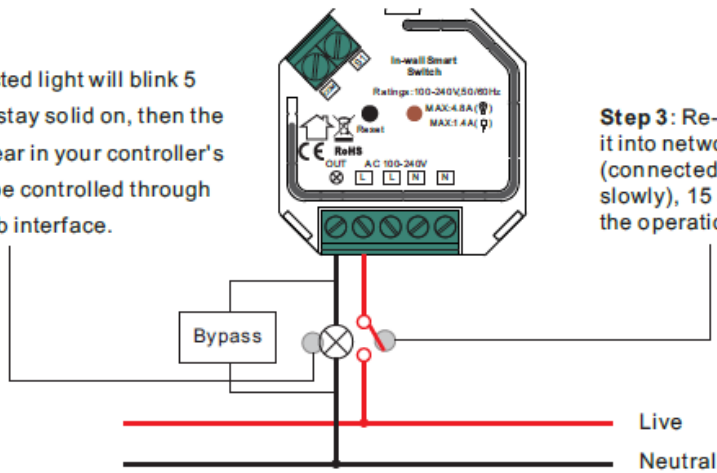
Operation

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: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat the operation.

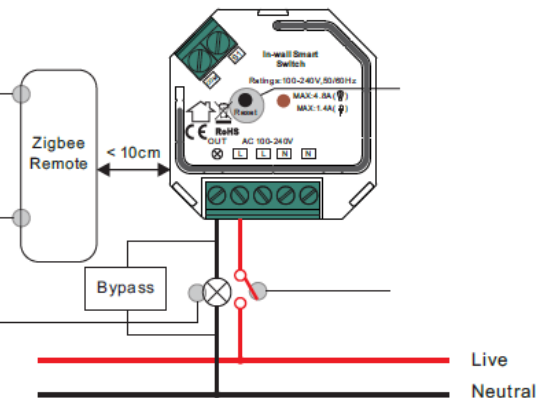
TouchLink to a Zigbee Remote

Step 1: Method 1: Short press "Reset" button (or re-power on the device) 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the operation. Method 2: Re-power on the device, 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 the operation.

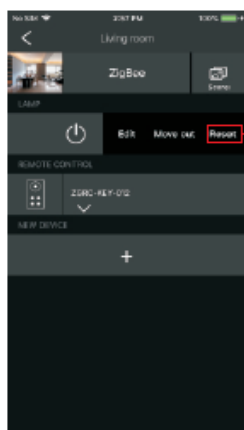
Step 2: Bring the remote or touch panel within 10cm of the lighting device.

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:** Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.
- TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes.
- For Hue Bridge & Amazon Echo Plus, add remote and device to network first then TouchLink.
- After TouchLink, the device can be controlled by the linked remotes.
- 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

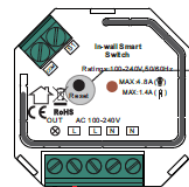
- Note** If the device is already at factory default setting, there is no indication when factory reset again .
- All configuration parameters will be reset after the device is reset or removed from the network

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 2: Connected light will blink 3 times to indicate successful reset.

Live
Neutral



Step 1: Short press "Reset." key for 5 times continuously or re-power on the device for 5 times continuously if the "Prog." key is not accessible.

7. Factory Reset through a Zigbee Remote

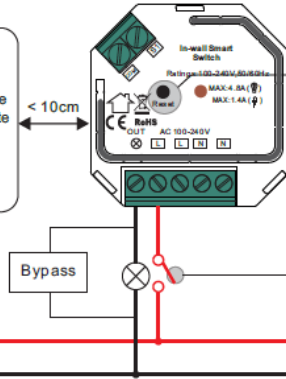
Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.

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

Step 3: Set 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.

Live
Neutral



Step 1: Re-power on the device to start TouchLink Commissioning, 180 seconds timeout, repeat the operation.

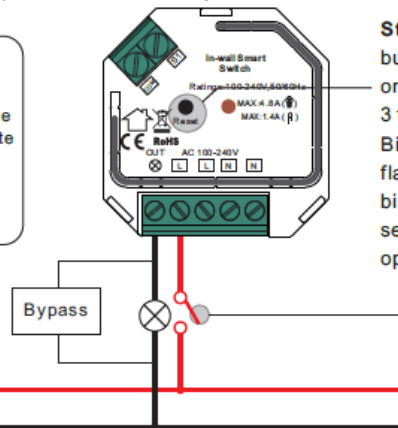
Find and Bind Mode

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.

Live
Neutral



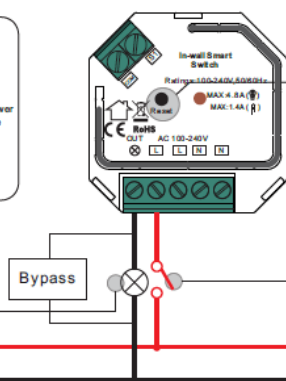
Step 1: Short press "Reset." button 3 times (Or re-power on the device (initiator node) 3 times) to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat the operation.

1. 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.

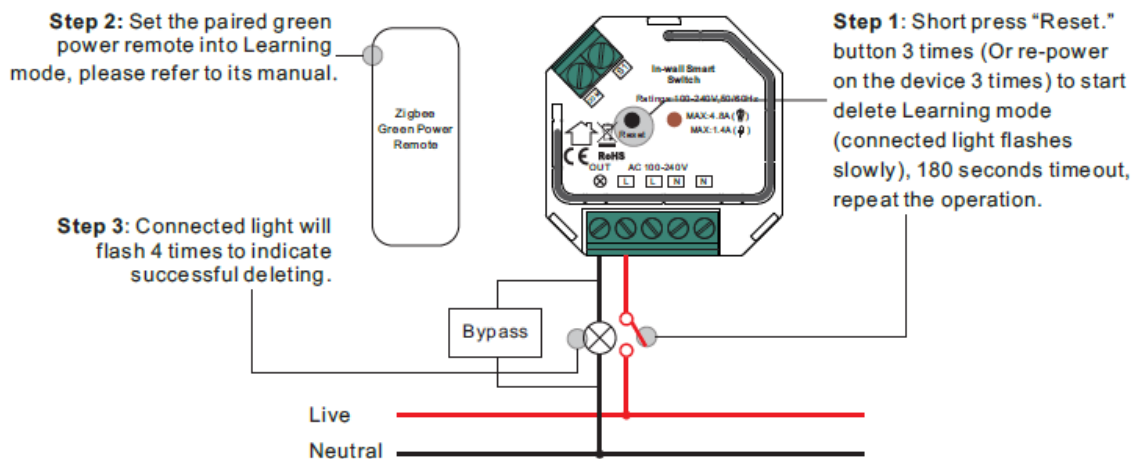
Live
Neutral



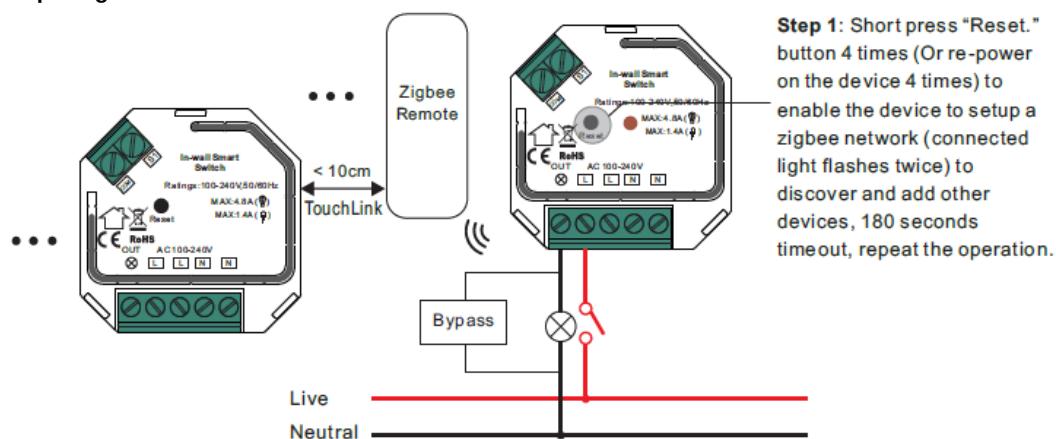
Step 1: Short press "Reset." button 4 times (Or re-power on the device 4 times) to start Learning mode (connected light flashes twice), 180 seconds timeout, repeat the operation.

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

Delete Learning to a Zigbee Green Power Remote



Setup a Zigbee Network & Add Other Devices to the Network



Wiring Diagram Compatible load types and recommended values of power for supported loads:

Supported load types	100-240V~
Resistive loads	
Conventional incandescent and halogen light sources	20-1000W @ 230V 20-500W @ 110V
Capacitive loads	Using Bypass: No Bypass Used: 20-300W @ 230V
Fluorescent tube lamp (compact / with electronic ballast), electronic transformer, LED	3-300W @ 230V 20-150W @ 110V 3-150W @ 110V
Inductive loads	20-300W @ 230V 20-150W @ 110V
Ferromagnetic transformers	

Notes for the diagrams:

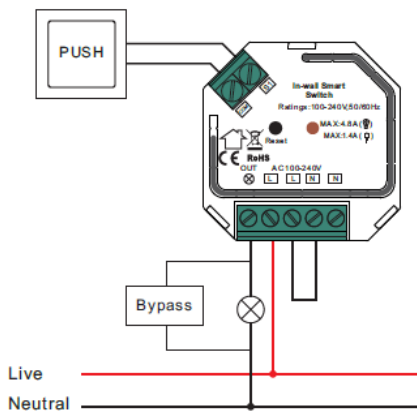
- **L** – terminal for live lead
- **N** – terminal for neutral lead
- **Out** – output terminal of the switch (controlling connected light source)
- **S1** – terminal for switch (has the option of entering the device in inclusion/exclusion mode) **COM** – terminal for grounding to the switch connected to the switch

Supported external switch types (should be configured by factory setting):

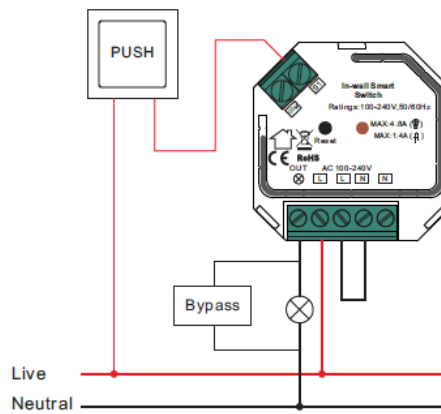
1. Push switch (default factory setting)
2. Normal On/Off switch (should be configured by factory setting upon request)

1. 2-Wire Connection With No Neutral Lead With PUSH LV

With PUSH LV



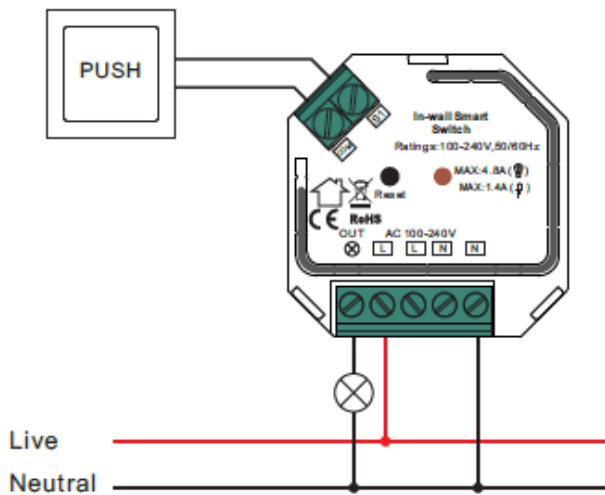
With PUSH



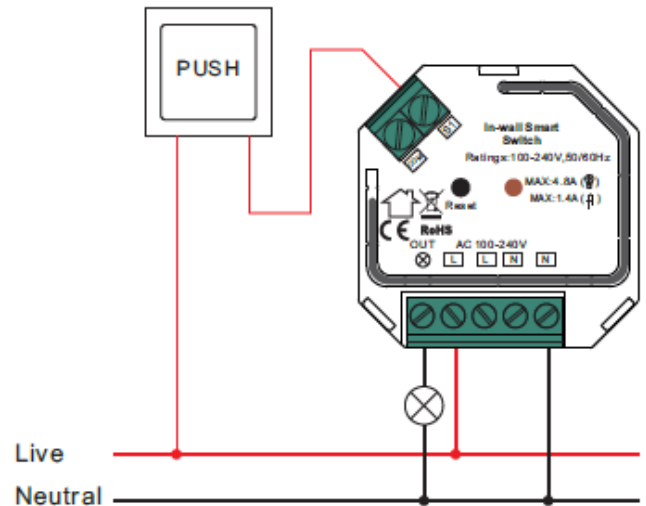
NOTE: Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off). The Bypass is a device designed to work with the micro smart dimmer. It should be used in case of connecting LED bulbs or energy saving compact fluorescent lamps. The Bypass prevents flickering of the LED lights and glowing of the turned off compact fluorescent lamps. In the case of 2-wire connection, the Bypass allows to reduce minimum power of load required by the dimmer for correct operation. The Bypass provides powering of the dimmer in case of controlling the low loads of minimum power down to 3W (for $\cos\phi > 0.5$).

3-Wire Connection With Neutral Lead With PUSH LV

With PUSH LV

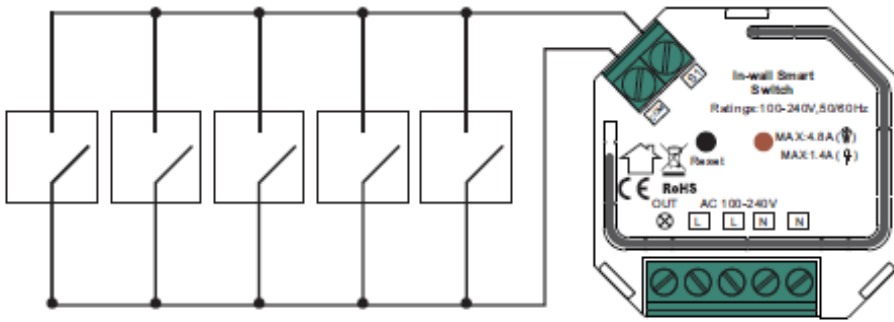


With PUSH

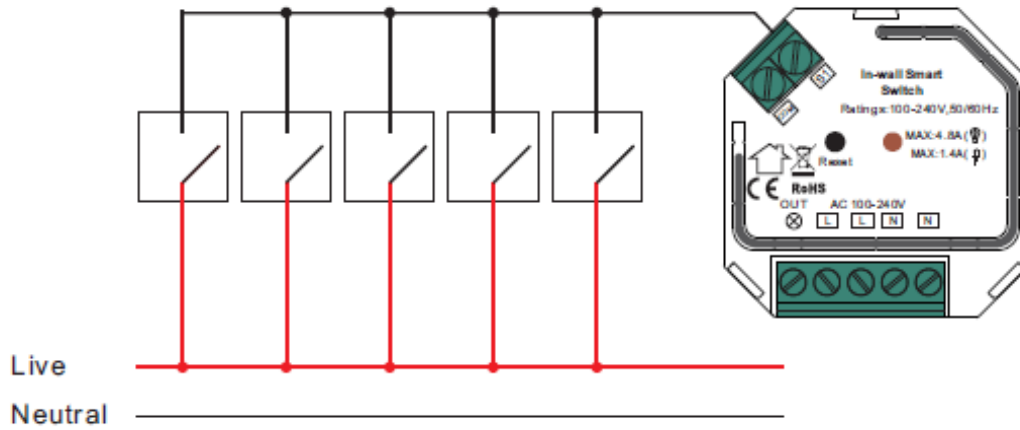


NOTE: Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off).

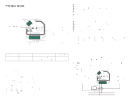
Multiple Momentary or Push Switches Connection With PUSH LV



With PUSH



Documents / Resources



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