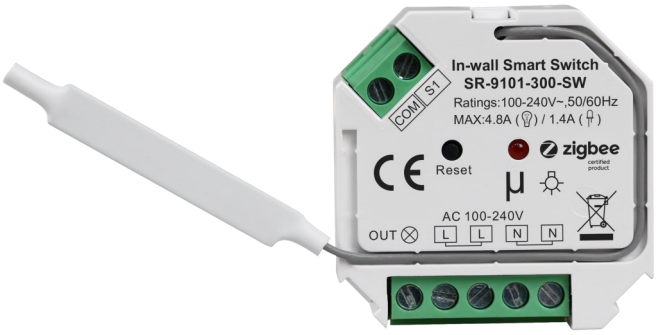
SR-9101-300-SW
ZIGBEE 3.0 AC-ZIGBEE 3.0 Schaltaktor inkl. Leistungs-messung



Eigenschaften / Features

ZigBee-in-Wand-Smart-Switch basierend auf dem neuesten ZigBee 3.0-Protokoll

100-240VAC Breite Eingangs- und Ausgangsspannung

Unterstützt ohmsche, kapazitive oder induktive Lasten

1-Kanal-Ausgang, maximale Last bis zu 4. 8A

Ein- und Ausgang mit Schraubklemmen, sicher und zuverlässig

Ermöglicht die Steuerung des Ein- und Ausschaltens der angeschlossenen Lichtquelle

ZigBee-Endgerät, das die Touchlink-Inbetriebnahme unterstützt

Kann direkt mit einer kompatiblen ZigBee-Fernbedienung über Touchlink ohne Koordinator gekoppelt werden

Unterstützt die Selbstbildung eines Zigbee-Netzwerks ohne Koordinator und das Hinzufügen anderer Geräte zum Netzwerk

Unterstützt den Find-and-Bind-Modus, um eine ZigBee-Fernbedienung zu binden

Unterstützt die Zigbee Green Power-Funktion und kann max. 20 Zigbee Green Power-Fernbedienungen

Kompatibel mit universellen ZigBee-Gateway-Produkten

Mini-Größe, einfach in eine Standard-Wanddose zu installieren

Funkfrequenz: 2,4GHz

Wasserdichtigkeitsgrad: IP20

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

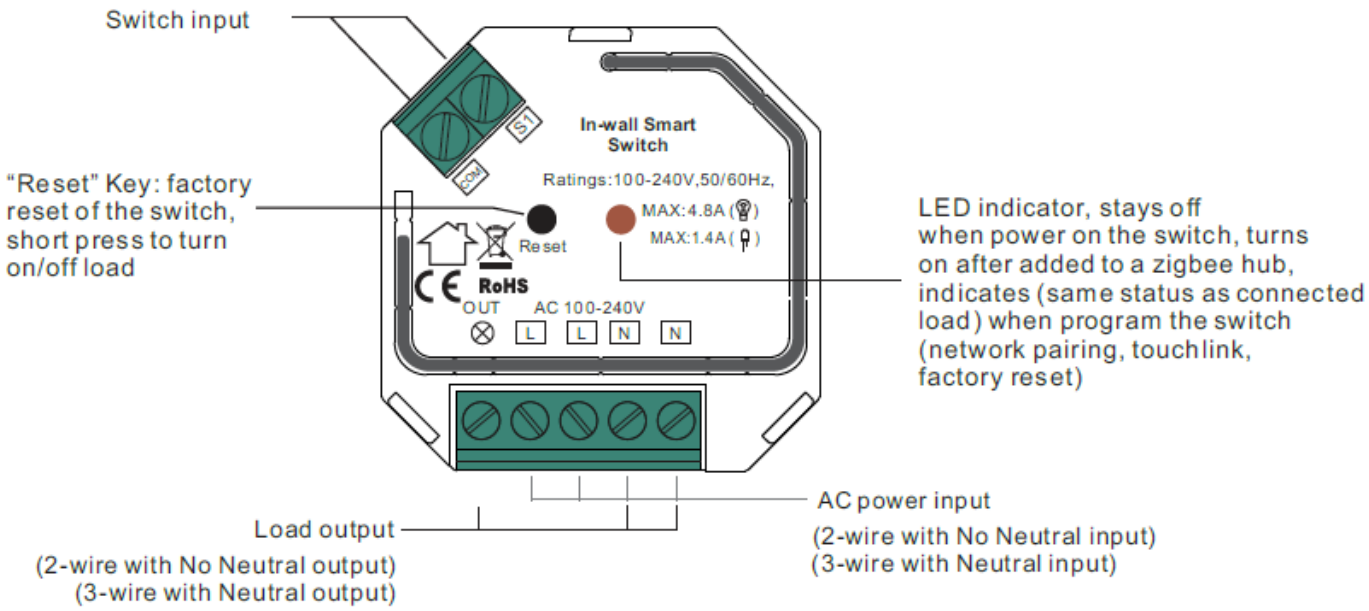
Mini Size, Easy to be Installed into a standard size wall box

Radio Frequency : 2.4GHz

Waterproof grade: IP20

Produkt Daten / Product Data

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



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:

Input Clusters

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

• 0x0b05: Diagnostics

Output Clusters

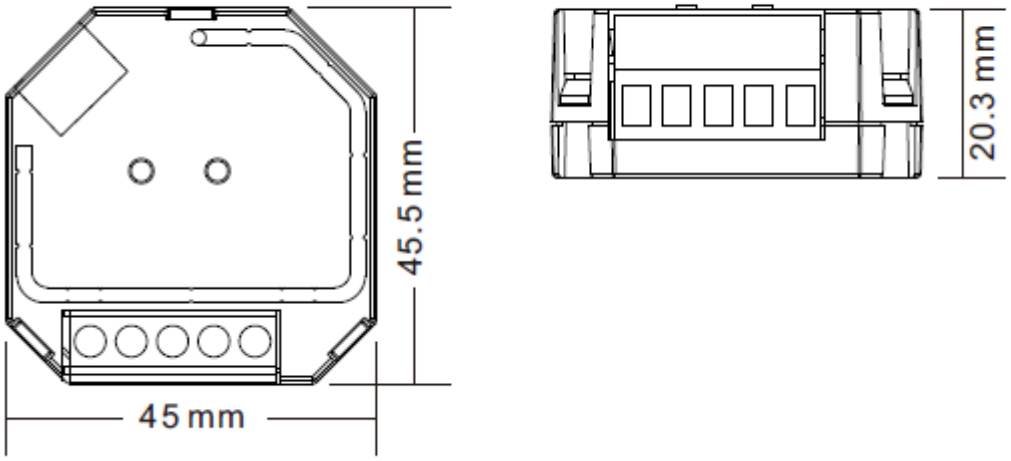
• 0x0019: OTA

OTA

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

Abmessungen / Dimension

Product Dimension



Features

- Kann in Zweileiterschaltung ohne Nullleiter oder in Dreileiterschaltung mit Nullleiter betrieben werden

- Softstartfunktion,

- Funktioniert mit verschiedenen Schaltertypen - Taster, Kippschalter, Dreiwegschalter usw.

- Aktives Element: elektronischer Halbleiterschalter,

- Einbau in Schalterdosen, deren Abmessungen den Einbau zulassen, entsprechend den Bestimmungen der geltenden Vorschriften,

- Der Bypass ist eine Nebenstelle.

- 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.

Features

Der Schalter funktioniert unter den folgenden Lasten:

- Herkömmliche Glüh- und HV-Halogenlichtquellen
- ELV-Halogenlampen (mit elektronischen Transformatoren)
- MLV-Halogenlampen (mit ferromagnetischen Transformatoren)
- Kompaktleuchtstofflampen CFL mit elektronischem Vorschaltgerät
- Leuchtstofflampen mit elektronischem Vorschaltgerät
- Unterstützte Lichtquellen (Leistungsfaktor > 0,5) mit einer Mindestleistung von 3 W unter Verwendung des Bypass (je nach Lasttyp)

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)

Operation

1.Do wiring according to connection diagram correctly.

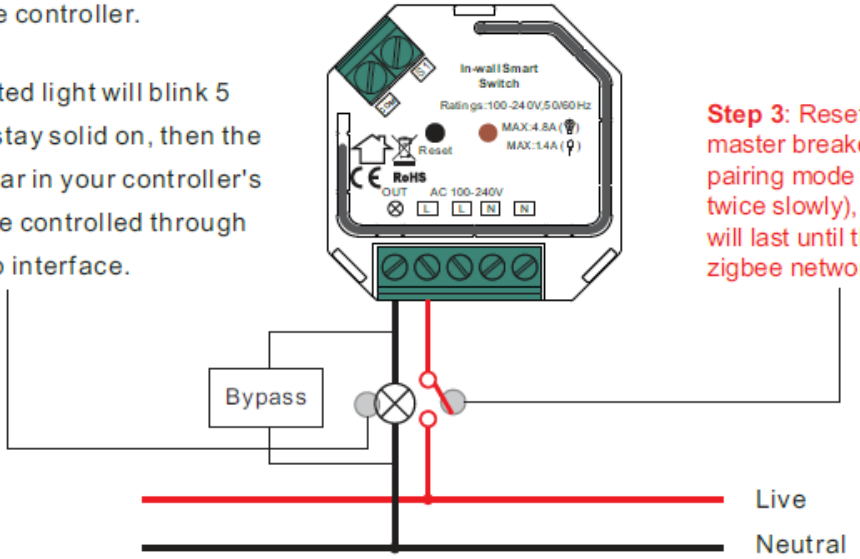
2.This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

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.



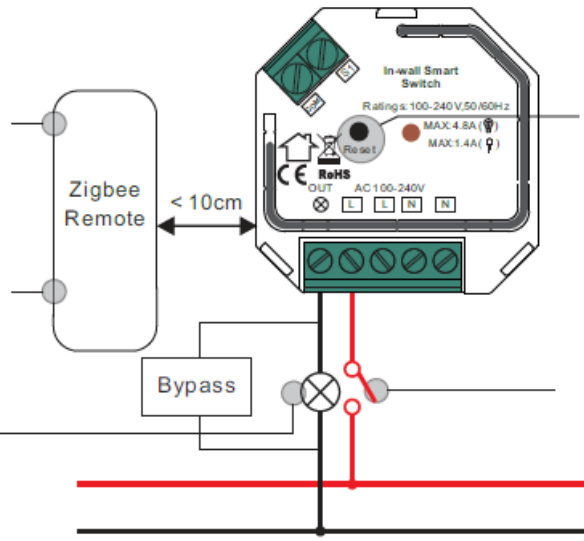
Step 3: Reset power of the device from master breaker to set it into network pairing mode (connected light flashes twice slowly), the network pairing mode will last until the device is added to a zigbee network.

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 from master breaker) to start Touchlink commissioning immediately under any circumstances, 180S timeout, repeat this step.
Method 2: Add the device to a network, touchlink commissioning will start immediately after it's added to the network, 180S timeout. Once timeout, reset power of the device to start touchlink commissioning again.

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.

Operation

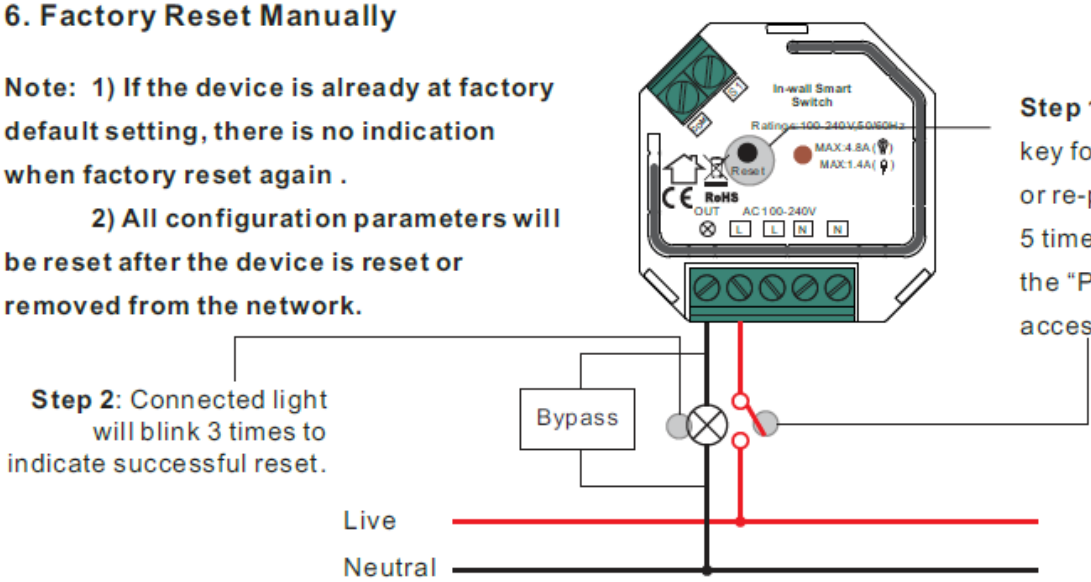
5. Removed from a Zigbee Network through Coordinator or Hub Interface

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 re-power on the device for 5 times continuously if the "Prog." key is not accessible.

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

Operation

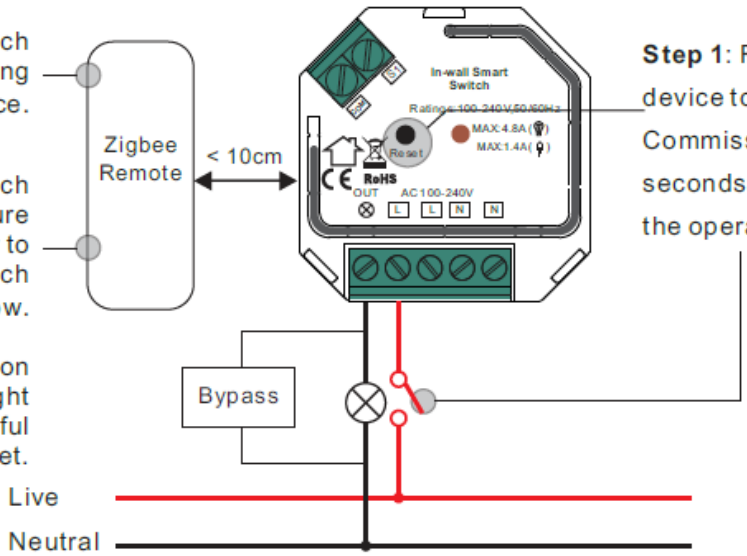
7. Factory Reset through a Zigbee Remote (Touch Reset)

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.



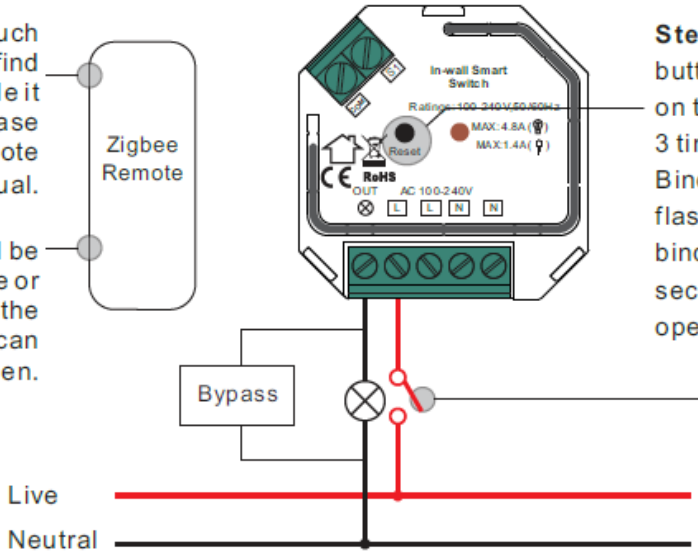
Step 1: Re-power on the device to start TouchLink Commissioning, 180 seconds timeout, repeat the operation.

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.

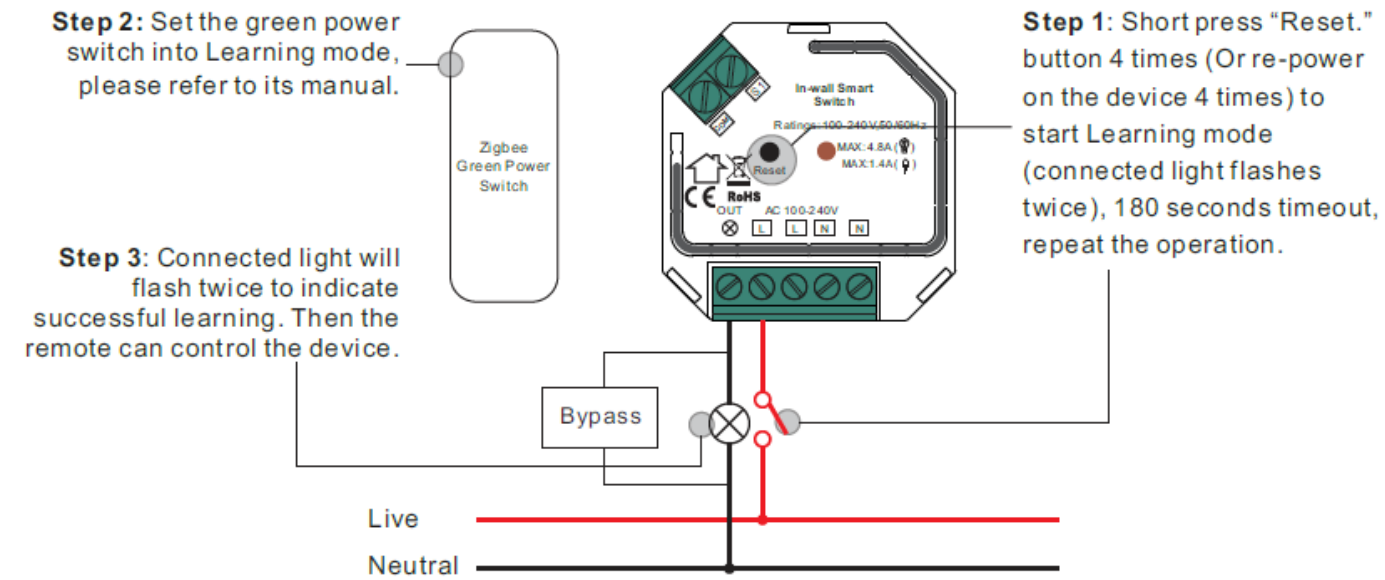
Step 3: There shall be indication on the remote or touch panel that it bind the device successfully and can control it then.



Step 1: Short press "Reset." button 3 times (Or 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.

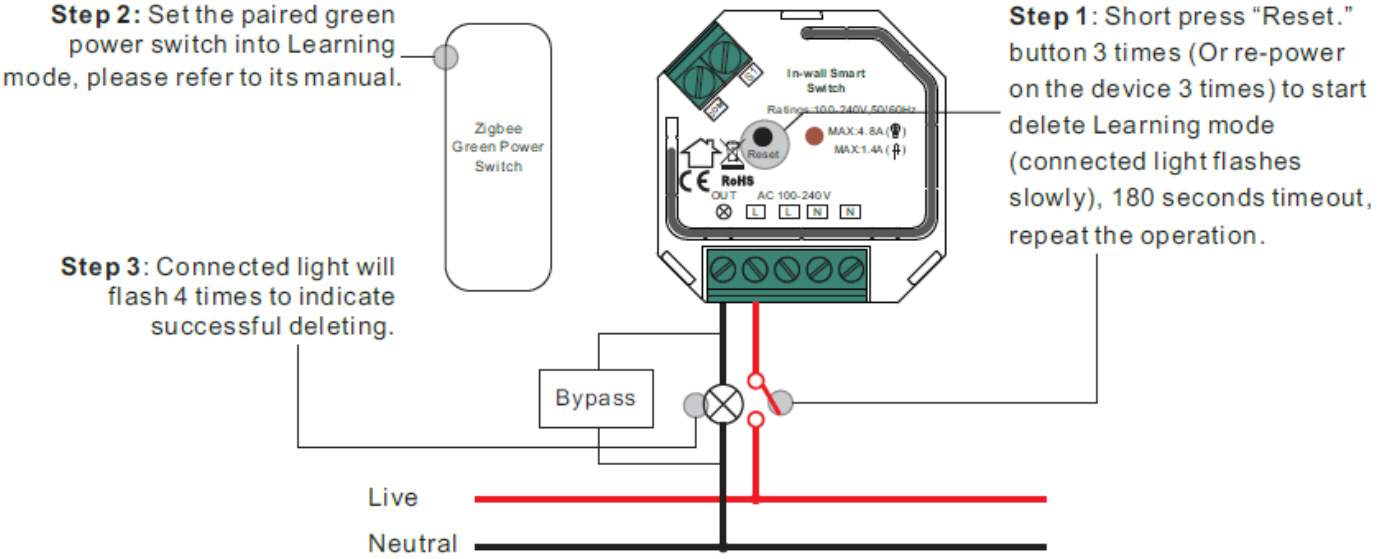
Operation

9. Learning to a Zigbee Green Power Switch



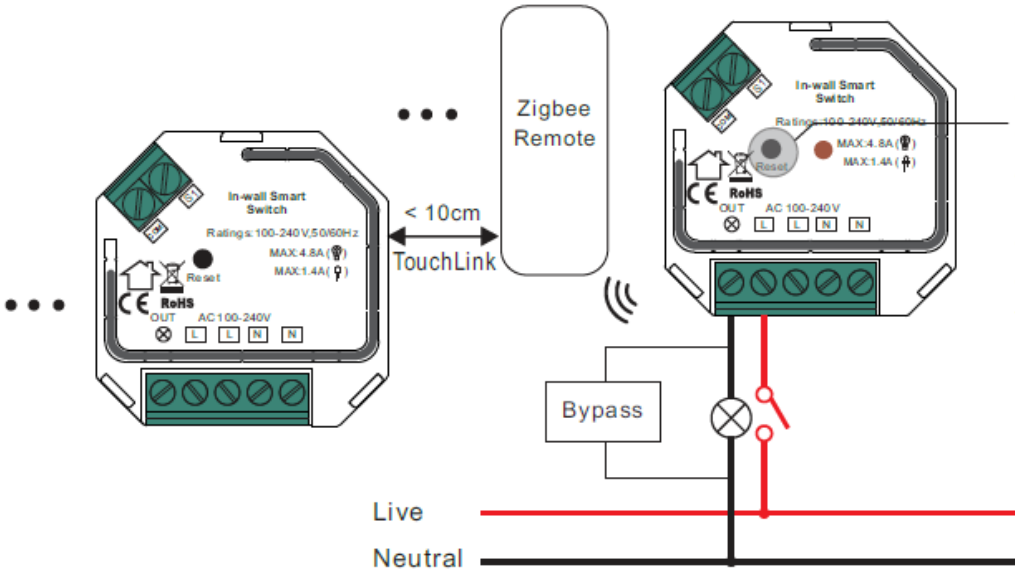
Note: Each device can learn to max. 20 zigbee green power switches.

10. Delete Learning to a Zigbee Green Power Switch



Operation

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



Step 1: Short press "Reset." button 4 times (Or re-power on 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 the operation.

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** Fluorescent tube lamp (compact / with electronic ballast), electronic transformer, LED	Using Bypass: 3-300W @ 230V 3-150W @ 110V	No Bypass Used: 20-300W @ 230V 20-150W @ 110V
	**Inductive loads** Ferromagnetic transformers	20-300W @ 230V 20-150W @ 110V	

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

Operation

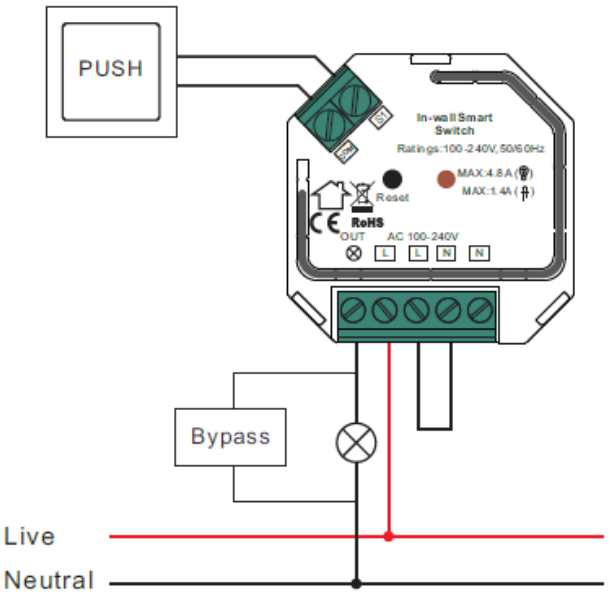
Supported external switch types (should be configured by factory setting):

1) Push switch (default factory setting)

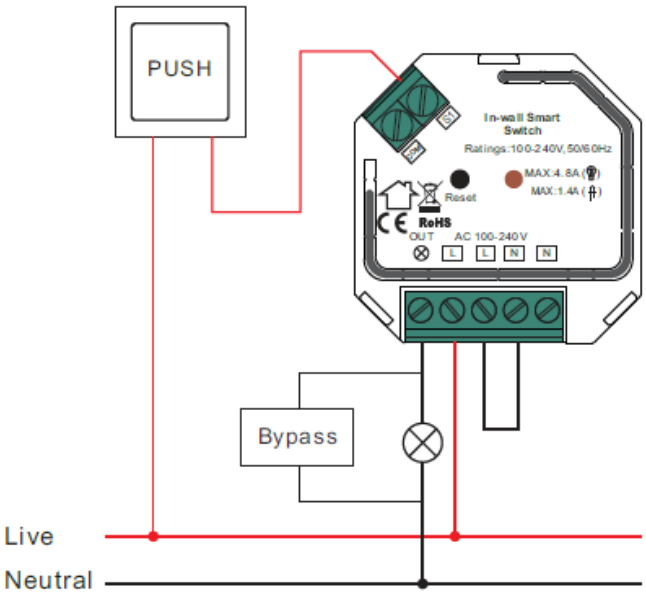
2) Normal On/Off switch (should be configured by factory setting upon request)

(1) 2-Wire Connection With No Neutral Lead

With PUSH LV



With PUSH

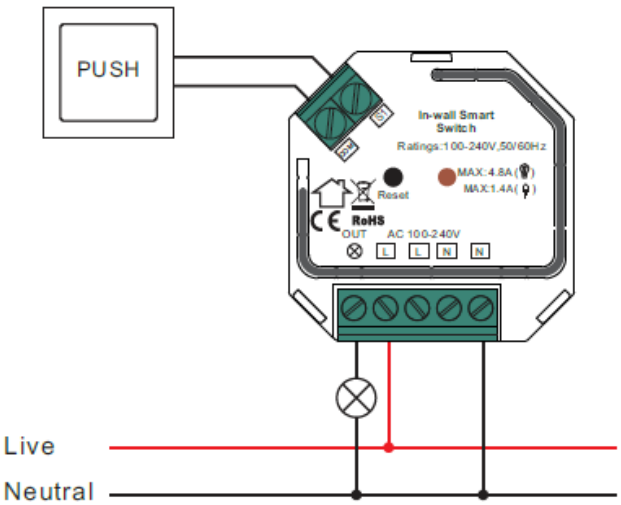


NOTE: Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off).

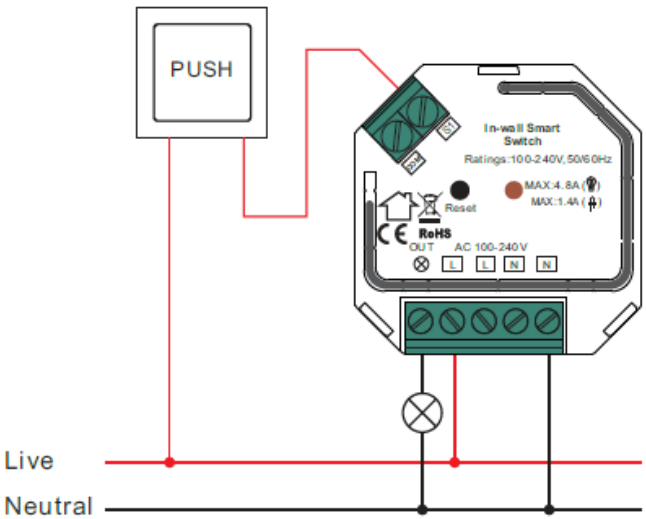
The Bypass is a device designed to work with the micro smart dimmer. It should be used in case of connecting LED bulbs or energy saving compact fluorescent lamps. The Bypass prevents flickering of the LED lights and glowing of the turned off compact fluorescent lamps. In the case of 2-wire connection, 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 cosφ>0.5).

(2) 3-Wire Connection With Neutral Lead

With PUSH LV



With PUSH

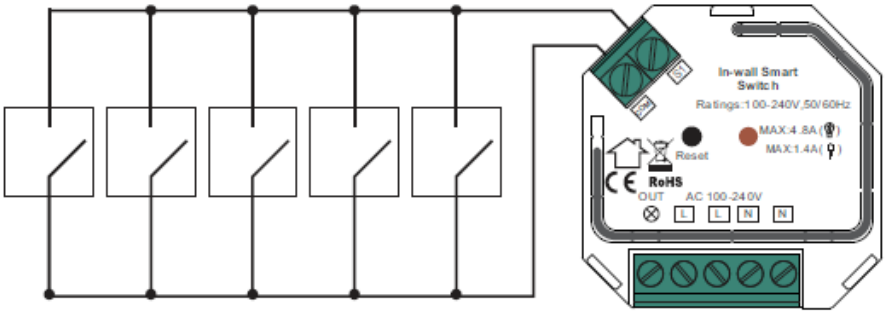


NOTE: Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off).

Operation

(3) Multiple Momentary or Push Switches Connection

With PUSH LV



With PUSH