EVVR

In-Wall Relay Switch
(Zigbee)

Instruction Manual

Complete Accessories Include

Smart Relay

Smart Switch Sub-Assembly

Switch Wire

Double Sided Foam Pad

Instruction Manual

Fixing Screw

Instruction Manual

Setup Code

Installation Instructions

Caution: Read this manual before attempting to install the device! Using this product in a manner other than intended voids your warranty. Further, EVVR ApS is NOT liable for any damage incurred with the misuse of this product.

Caution: All installations of this device should be performed by a qualified or licensed electrician!

Caution: Metal casings, mirrors, electrical appliances, etc., may affect, reduce, or interfere with wireless communication.

Caution: Use this product in an indoor environment.

Caution: Product must be installed on a 10A line.
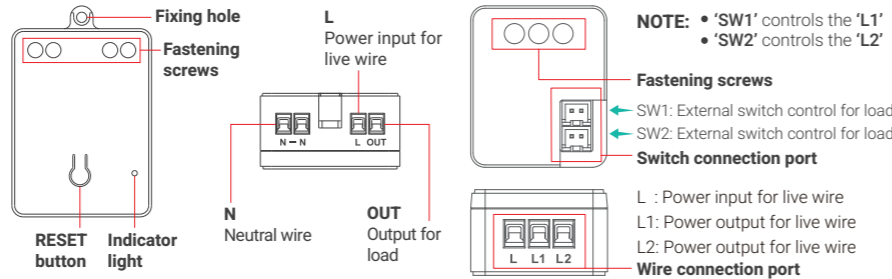

Product Introduction

Smart Relay uses Zigbee wireless technology and can be used in different loads, including incandescent lamps, halogen lamps, LED lamps and fluorescent lamps. It could be installed near the light or light fixture itself. This device is compatible with standard Zigbee 3.0 gateway or devices for remote control and inter-operation.

Smart Switch Sub-Assembly is an optional component of the **In-Wall Relay Switch**. The **Smart Switch Sub-Assembly** is designed to allow mechanical switch to work with switch commands from the network. For example, after turning off the lights with a mechanical switch, you can turn on the lights through network commands.

One **Smart Relay** can be connected to one or a series **Smart Switch Sub-Assemblies** (Multiple-point control). One **Smart Switch Sub-Assembly** can be connected to two circuits of loads, each of which must use one **Smart Relay.**

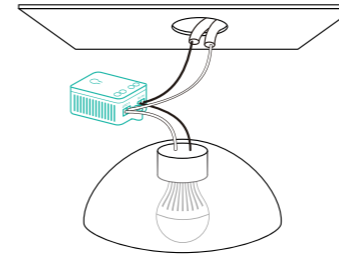| TECHNICAL SPECIFICATIONS		
Model	SRB01/SRB01A	SS01
Input Voltage	AC 85V~245V	AC 85V~245V
Max. Load Power	AC 110V/300W AC 220V/600W	AC 110V/300W (2-gang in total) AC 220V/600W
Min. Load Power	No limit	No limit
Applicable to	Light Fixtures	Toggle, Momentary Switch
Operating Temperature	0~40°C (32°~104°F)	0~40°C (32°~104°F)
Operating Humidity	5~85% RH	5~85% RH
Product Size (L*W*H)	59.4mm * 39.3mm * 21.2mm (2.34in. x 1.55in. x 0.83in.)	33.5mm * 28.2mm * 17.3mm (1.32in. x 1.11in. x 0.68in.)
Wireless Connectivity	Zigbee 2.4GHz IEEE 802.15.4	
Wireless Profile	Zigbee 3.0	
RF Characteristics	Operating frequency: 2.4GHz Range: 30m~60m Internal antenna	

Fixing hole

Fastening screws

L Power input for live wire

N Neutral wire

OUT Output for load

RESET button **Indicator light**

NOTE: • 'SW1' controls the 'L1'
• 'SW2' controls the 'L2'

Fastening screws

SW1: External switch control for load
SW2: External switch control for load

Switch connection port

L : Power input for live wire
L1: Power output for live wire
L2: Power output for live wire

Wire connection port

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1 Turn off the power

Warning: Turn OFF electrical power from the breaker box or electrical service panel before installing or servicing this product. Improper use or installation can cause SERIOUS INJURY, DEATH, or LOSS/DAMAGE OF PROPERTY.
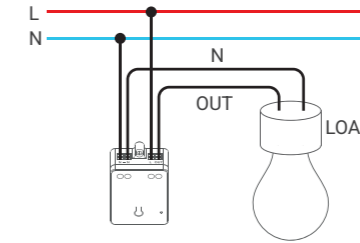

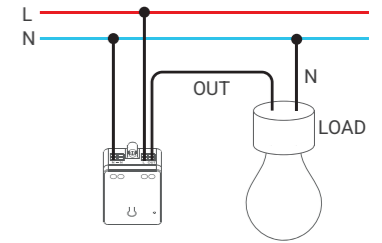
2 Connect the Smart Relay to the load

You can choose one of the two diagrams below to connect the wires according to your installation environment.

It is recommended to install **Smart Relay** near the lamp.

NOTES FOR THE DIAGRAM:
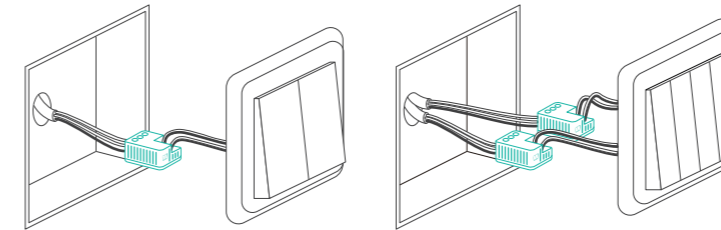N - neutral wire   L - live wire   OUT - output live wire

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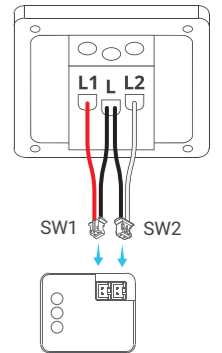### 3 Connect the Smart Switch Sub-Assembly to the traditional switch

With **Smart Switch Sub-Assembly** you can control **Smart Relay** using traditional switch.

Smart Switch Sub-Assembly is compatible with 1/2 gang switch, and two **Smart Switch Sub-Assemblies** can be installed to support 3/4 gang switch.

Note:
One end of the **Switch Wire** should be inserted into the "**SW1**" and "**SW2**" jacks on the **Smart Switch Sub-Assembly** and the other end can only be connected to a traditional switch. Do not connect the wire to the live, neutral, or load wires, or else it will damage the device.
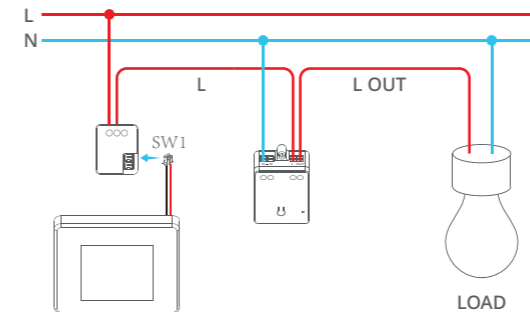
Note:
The black wires of the **Switch Wire** must connect to the common terminal of the traditional switch.
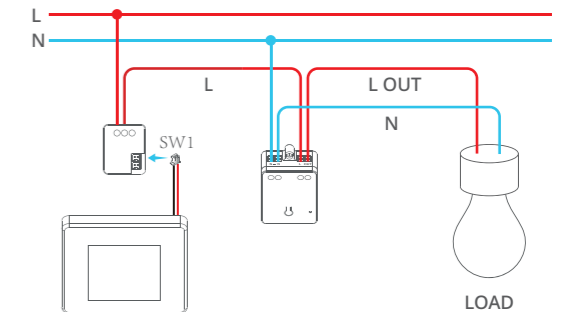
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4 Overall diagram

If the **Smart Switch Sub-Assembly** and **Smart Relay** are connected correctly, it should look like one of the diagrams below.
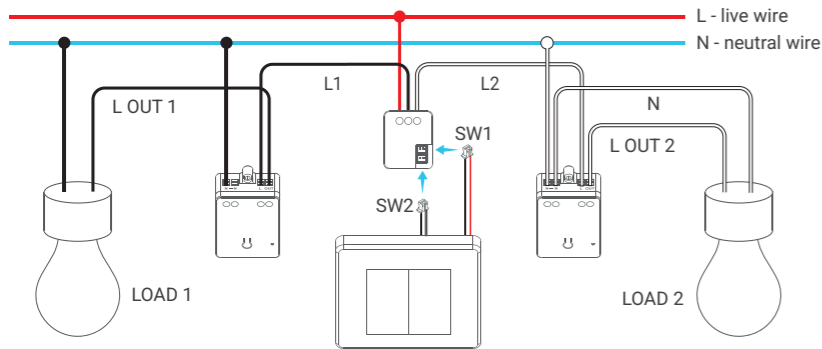
Wiring a Single Light Switch

Note: When **Smart Switch Sub-Assembly** is connected to a 1-gang switch, the switch must be connected to SW1 external switch jack (not SW2). Please choose one of the installation methods to connect the N line according to your actual installation environment.
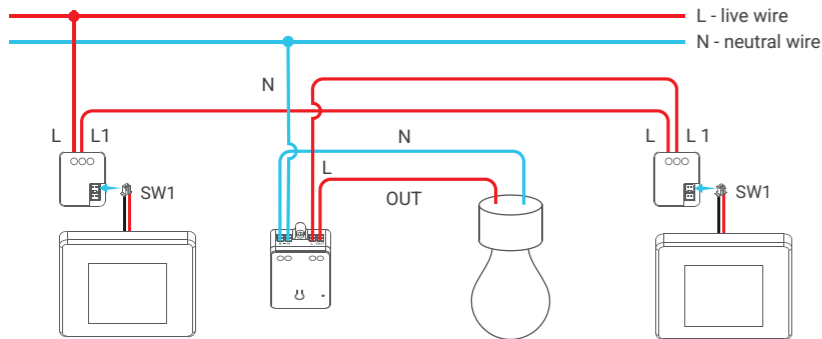
4 Overall diagram

### Wiring a Double Light Switch

L - live wire
N - neutral wire

L OUT 1
L1
L2
SW1
L OUT 2
N
SW2
LOAD 1
LOAD 2

Wiring 3-Way Control Light Switches

L - live wire
N - neutral wire

N
L L1
N
L L1
L
SW1
OUT
SW1

Note: Only one of the traveler wires is needed. Please insulate the other one and put it back into the electric box.

For more wiring diagrams such as group lights, multi-control, double light switch 3-way control, etc., please visit **docs.evvr.io** to view the support documents.

5 Paste the device for auxiliary heat dissipation

Recommended placement
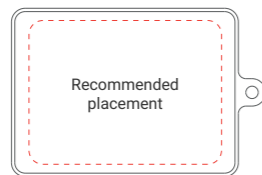
Turn ON the electrical power and check if the wires are connected correctly. If wires are properly connected, the indicator light will come on while the light(s) connected to the switch are turned on.

Stick the foam pad to the recommended position on the **Smart Relay** and then place the relay on a flat, clean surface.

Peel off the paper from the adhesive and affix the **Smart Switch Sub-Assembly** to the switch box.

Note: When powered on for the first time, the **Smart Relay** will automatically go into inclusion mode. The inclusion mode will exit if there is no action performed in 1 minute. If you want to set up the **Smart Relay** again, please reset it or power cycle it to put it into inclusion mode once again.

1. Set your Zigbee hub into inclusion mode with either method

Method 1
Add devices and manually select the device type

zigbee Hub
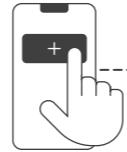
QR code

Method 2
Add devices by scanning the QR code on the device or manual
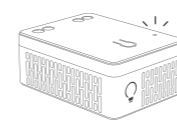
2. Set the Smart Relay into inclusion mode

Short press the **RESET** button to reboot it.

60 SEC

The indicator light will flash blue, wait until pairing is successful or 60 seconds timeout.

If the **Smart Relay** is successfully paired, the indicator will show **BLUE** when the load light is on. If not, the indicator will show **RED** when the load light is on.

Note: All operations require a 5-second wait after the **Smart Relay** power up before use.

Set the Smart Relay into inclusion mode with Smart Switch Sub-Assembly

Working with toggle/momentary switch
Quickly toggle/click the switch button **10 times**. The load will be on/off twice indicating a successful operation.
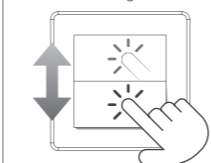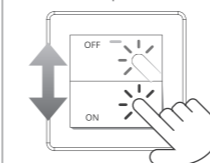

OFF
ON
ON / OFF
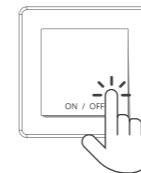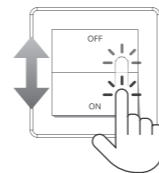
Type of Connected Switch

Double-click the **RESET** button to switch between the three switching modes.

❶ Toggle Switch – *DEFAULT*	❷ Toggle Switch (Sync)	❸ Momentary Switch
Device changes status when switch changes status	Contact closed - ON, Contact opened - OFF	
Flip to turn on or off	*Always on/Always off*	*Rebound after release*
Indicator blink purple once	Indicator blink purple twice	Indicator blink purple three times

Restore Smart Relay to factory settings

Press and hold the **RESET** button for more than **5** seconds. The red indicator will flash twice to indicate a successful operation.
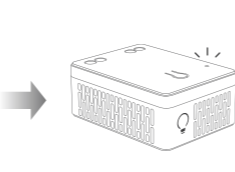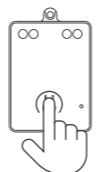
If the **Smart Relay** is successfully restored to factory settings, the relay will go into inclusion mode automatically.

Q1 | **Smart Relay pairing failed.**

- The device may be too far from the Wi-Fi router, or there may be interference in the current network environment. Please try to bring devices closer to the Wi-Fi router.

- The device may be already paired. Please return the device to factory defaults if you want to pair again.

Q2 | **Cannot be controlled by gateway/coordinator or other Zigbee devices.**

The device may be installed in an unreasonable location, too far from the gateway or routing device, or there may be signal interference.

Please check whether there is strong electromagnetic field equipment near the wireless switch and check whether the equipment is installed in a closed metal housing or in a closed concrete wall. Add routing devices or bring devices closer to the gateway/coordinator.

Q3 | **The light turns off automatically after a short period of time (approximately 30 seconds).**

The power of the light may exceed the maximum power (AC 110V/ 300W, AC 220V/600W). Please check whether the power of the light exceeds the maximum power.

Q5 | **In case of power loss while the lights were on, the light status is on when power is restored?**

Yes. The device will record the status of the light, and after the device is powered off, re-powering will restore the state before the device was powered off.

Q6 | **Cannot switch lights on and off normally.**

The **Switch Wire** from switch to **Smart Switch Sub-Assembly** is not properly connected or the wiring of the switch is not correct.

1. Check whether the **Smart Relay** blue/red LED is on when the load light is on. If the blue/red LED is not on, it may be that the 'live IN wire' and 'live OUT wire' of the main's power line are not connected properly.

2. If the **Smart Relay** blue/red LED is on, check whether the terminal is properly connected.

3. Please refer to the installation instructions section to check for proper wiring.

4. If only one load is connected to the **Smart Switch Sub-Assembly**, please check whether the 'power output for live' of the **Smart Switch Sub-Assembly** is connected to 'L1'.

5. Mechanical switch type identification error. (Please refer to "Type of Connected Switch")

Disposal Instructions

This product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Warranty Policy

For warranty information, please visit
https://www.evvr.io/warranty

Please contact us for any technical issue
support@evvr.io