



In-Wall Relay Switch (HomeKit)

Instruction Manual

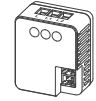
Rev. 072823 v1.0a

P/N SRHW01 SS01

Complete Accessories Include



Smart Relay



Smart Switch Sub-Assembly



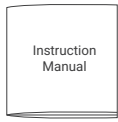
Switch Wire



Double Sided Foam Pad



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.



Product Introduction

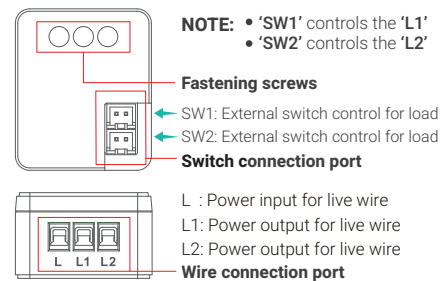
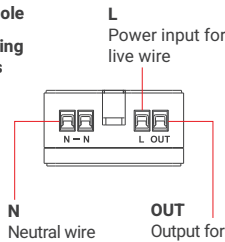
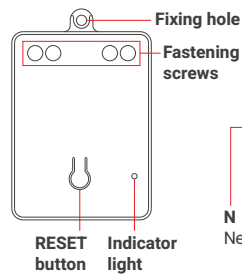
Smart Relay uses Wi-Fi technology and can be used in different loads, including incandescent lamps, halogen lamps, LED lamps and fluorescent lamps. It could be installed near the light or light fixture itself. This device uses Apple HomeKit technology for remote control and inter-operation.

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	SRHW01	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	Wi-Fi 2.4GHz IEEE 802.11	
Wireless Profile	HomeKit	
RF Characteristics	Operating frequency: 2.4GHz Range: 50m~80m Internal antenna	



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

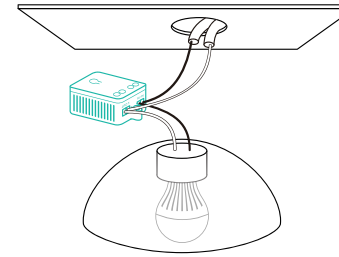
Caution: Product must be installed on a 10A line.

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.

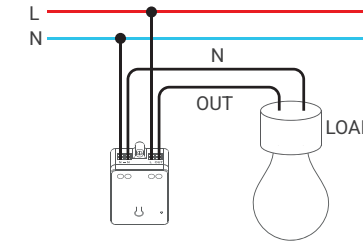


2 Connect the Smart Relay to the load

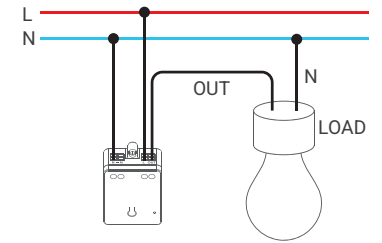


It is recommended to install **Smart Relay** near the lamp.

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



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

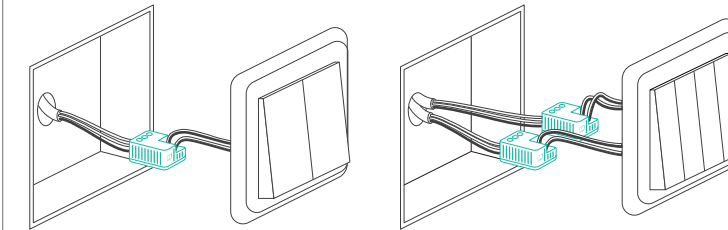


OUT - output live wire

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

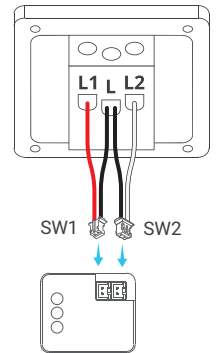
With **Smart Switch Sub-Assembly** you can control **Smart Relay** using traditional switch.

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.

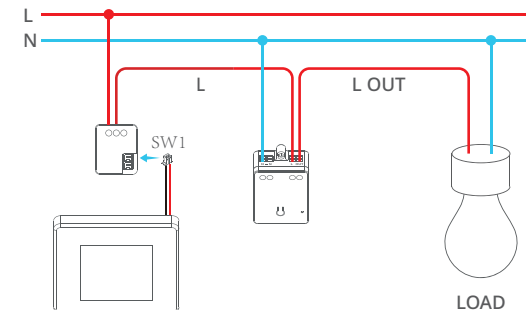
Note: The black wires of the **Switch Wire** must connect to the common terminal of the traditional switch.



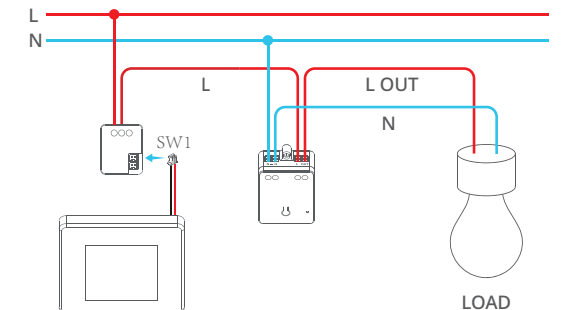
4 Overall diagram

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

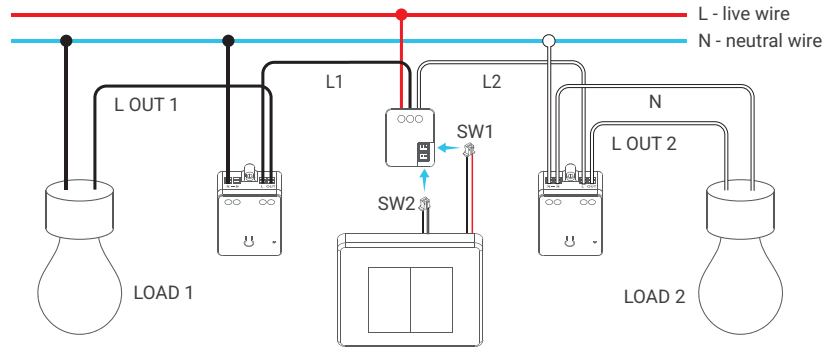


Note: When **Smart Switch Sub-Assembly** is connected to a 1-gang switch, the switch must be connected to SW1 external switch jack (not SW2). Please choose one of the installation methods to connect the N line according to your actual installation environment.

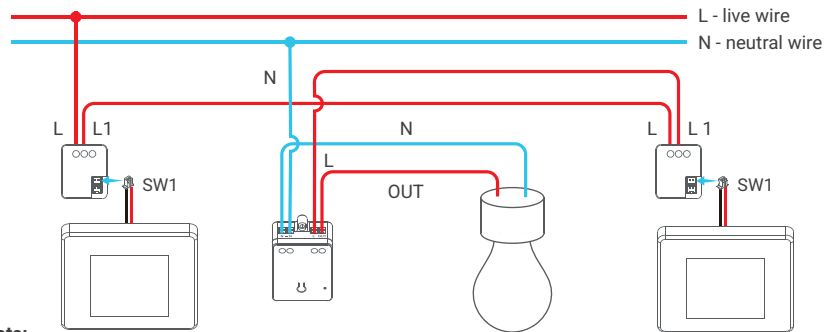


4 Overall diagram

Wiring a Double Light Switch



Wiring 3-Way Control Light Switches



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.evv.io to view the support documents.

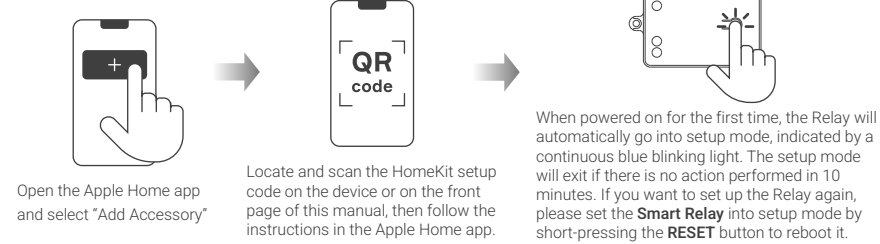
Setup Instructions

Important:

The **In-Wall Relay Switch** can be controlled from iOS devices.

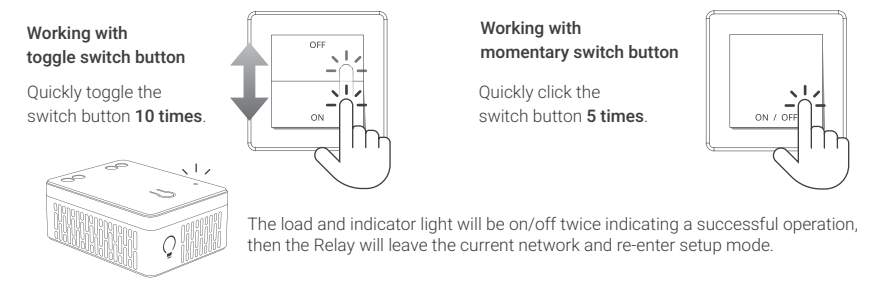
To control this HomeKit-enabled accessory, the latest version of iOS or iPadOS is recommended. A customer who owns an Apple TV (4th generation or later) with tvOS 10 or later, an iPad with iOS 10 or later, or a HomePod or HomePod mini can control HomeKit-enabled accessories away from home and automatically through triggers such as time of day, location, sensor detection, or the action of an accessory.

Add Smart Relay to Apple HomeKit

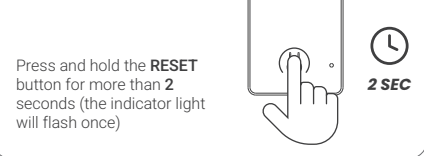


Note: All operations require a 5-second wait after the Smart Relay power up before use.

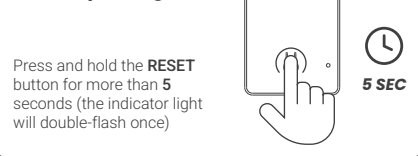
Set the Smart Relay into setup mode with Smart Switch Sub-Assembly



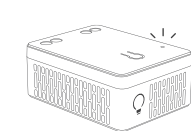
Unpairing Smart Relay from Wi-Fi Router



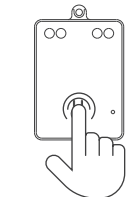
Restore Smart Relay to factory Settings



Indicator Light Status



Type of Connected Switch



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

Color	Activity	Wi-Fi Connection	HomeKit Connection
Blue	Glowing	✓	✓
Red	Glowing	✗ / ✓	✗
Red	Flashing	✗	✓

1 Toggle Switch - DEFAULT	2 Toggle Switch (Sync)	3 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

Troubleshooting

Q1 Why does the load turn off suddenly and then turn back on normally after a while?	Q5 In case of power loss while the lights were on, the light status is on when power is restored?
This occurs due to an automatic device upgrade. The device undergoes an automatic upgrade process and restarts upon successful completion. If the load is turned on during this process, it will turn off and then back on again.	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.
Q2 Smart Relay pairing failed.	Q6 Cannot switch lights on and off normally.
<ul style="list-style-type: none">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.	The Switch Wire from switch to Smart Switch Sub-Assembly is not properly connected or the wiring of the switch is not correct. <ol style="list-style-type: none">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.If the Smart Relay blue/red LED is on, check whether the terminal is properly connected.Please refer to the installation instructions section to check for proper wiring.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'.Mechanical switch type identification error. (Please refer to "Type of Connected Switch")
Q3 Smart Relay cannot be controlled by Apple Home APP.	
The device may be installed too far from the Wi-Fi router, 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 Wi-Fi router or bring devices closer to the Wi-Fi router.	
Q4 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.	

Certifications (regional)

FCC ID:
2A68U-SRHW01



FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Consult the dealer or an experienced technician for help.

Important Announcement Important Note Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

Legal Notice

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Apple, HomeKit, HomePod, HomePod mini, iPad, iPhone and Apple TV are trademarks of Apple Inc., registered in the U.S. and other countries and regions.

Warranty Policy

For warranty information, please visit <https://www.evv.io/warranty>

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

5 Paste the device for auxiliary heat dissipation



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.