



EVVR SRB02A Smart Relay Lite Instruction Manual

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EVVR SRB02A Smart Relay Lite



Product Information

- Rev. A-101122
- P/N SRB02A

Please see the separate Smart Switch manual for complete instructions.

Product Introduction

The Smart Relay Lite uses Zigbee wireless technology and can be used with different types of loads, including incandescent lamps, halogen lamps, LED lamps, and fluorescent lamps. It is small in size and can be installed in the box of light fixtures. This device is compatible with standard Zigbee 3.0 gateways or devices for remote control and inter-operation.

Technical Specifications

Model	Input Voltage	Max. Load Power	Min. Load Power	Type of Load	Operating Temperature	Operating Humidity	Wireless Connectivity	Zigbee Profile
SRB02A	AC 85V ~245V	AC 110V/1500W AC 220V/3000W No limit		Lighting	5~85% RH	Zigbee 2.4 GHz IEEE 802.15.4	Zigbee 3.0 Operating frequency: 2.4GHz Range: 30m~60m Internal antenna	47.4mm * 39.3mm * 21.3mm (1.87in. x 1.55in. x 0.84in.)

RF Characteristics:

- Fastening screws
- RESET Button
- Fixing hole
- N Power input for Neutral wire
- Indicator Light
- L Power input for live wire
- OUT Output for load

Product Usage Instruction

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:** The product must be installed on a 10A~16A line.
- **Caution:** Metal casings, mirrors, electrical appliances, etc., may affect, reduce, or interfere with wireless communication.
- **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.
- **Caution:** Use this product in an indoor environment.

Connect wires per wiring diagram as follows:

1. If you have purchased a Smart Switch to use with it, please follow the installation instructions on the Smart Switch manual.
2. With Smart Relay Lite, you can turn a traditional lamp into a Zigbee smart lamp. It is recommended to install Smart Relay Lite near the lamp.
3. 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
- L OUT – output live wire

Fix Smart Relay on a flat, cleaned surface:

2. Stick the foam pad at the recommended position on the Smart Relay Lite and then place the relay on a flat, cleaned surface.
3. Turn ON the electrical power and check if the wires are connected correctly. If they are correct, the indicator light will be on when the load light, the light(s) connected to the switch, is on.

Operating Instructions

Important:

The In-Wall Relay Switch Lite can be controlled from a smartphone when used with a Zigbee 3.0 gateway.

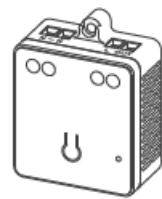
Note:

Before pairing/re-pairing Smart Relay Lite, you need to set your Zigbee 3.0 gateway into inclusion/pairing mode

with either method.

Please see separate Smart Switch manual for complete instructions.

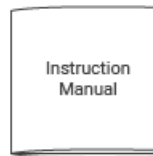
Complete Accessories Include



Smart Relay ×1



Double Sided
Foam Pad ×1



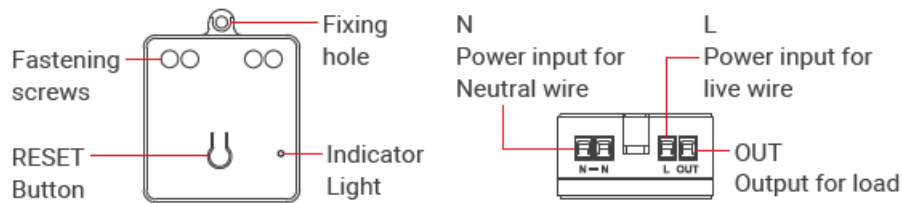
Instruction Manual ×1

Product Introduction

Smart Relay Lite uses Zigbee wireless technology and may be used in different loads, including incandescent lamps, halogen lamps, LED lamps and fluorescent lamps. It is small in size and may be installed in the box of light fixtures. This device is compatible with standard Zigbee 3.0 gateway or devices for remote control and inter-operation.

Technical Specifications

Technical Specifications	
Model	SRB02A
Input Voltage	AC 85V~245V
Max. Load Power	AC 110V/1500W AC 220V/3000W
Min. Load Power	No limit
Type of Load	Lighting
Operating Temperature	0~40°C (32°~104°F)
Operating Humidity	5~85% RH
Wireless Connectivity	Zigbee 2.4GHz IEEE 802.15.4
Zigbee Profile	Zigbee 3.0
RF Characteristics	Operating frequency: 2.4GHz Range: 30m~60m Internal antenna
Product Size (L*W*H)	47.4mm * 39.3mm * 21.3mm (1.87in. x 1.55in. x 0.84in.)



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:** Product must be installed on a 10A~16A line.
- **Caution:** Metal casings, mirrors, electrical appliances, etc., may affect, reduce, or interfere with wireless communication.
- **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.
- **Caution:**
Use this product in an indoor environment.

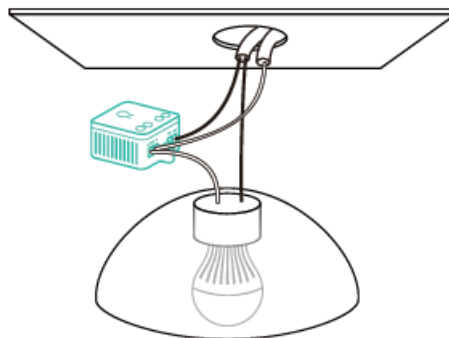


Connect wires per wiring diagram as follows

Caution:

If you have purchased a Smart Switch to use with it, please follow the installation instructions on the Smart Switch manual. With Smart Relay Lite, you can turn a traditional lamp into a Zigbee smart lamp. It is recommended to install Smart Relay Lite near the lamp.

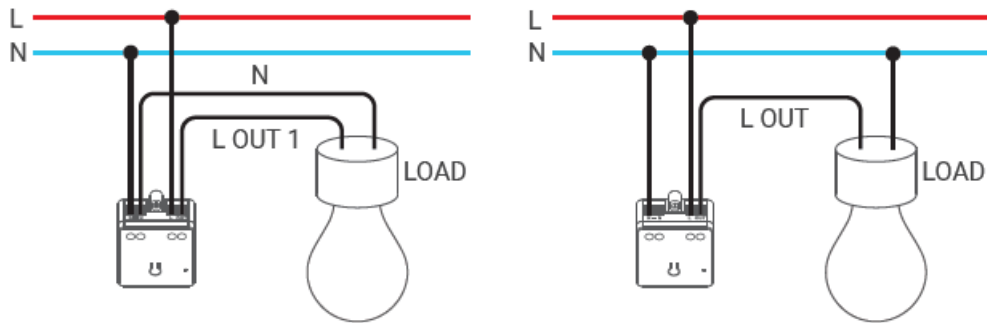
You can choose one of the two diagrams below to connect the wires according to your installation environment.



NOTES FOR THE DIAGRAM:

- N – neutral wire
- L – live wire

- L OUT – output live wire



Fix Smart Relay on a flat, cleaned surface

- Stick the foam pad at the recommended position on the Smart Relay Lite and then place the relay on a flat, cleaned surface.
- Turn ON electrical power and check if the wires are connected correctly. If they are correct, the indicator light will be on when the load light, the light(s) connected to the switch, is on.



Operating Instructions

Important:

The In-Wall Relay Switch Lite can be controlled from a smartphone when used with a Zigbee 3.0 gateway.



Note:

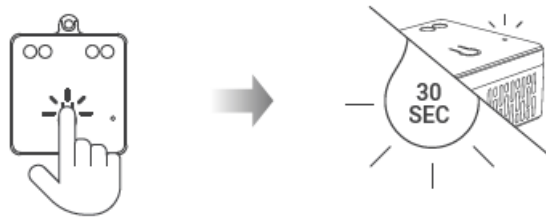
Before pairing/re-pairing Smart Relay Lite, you need to set your Zigbee 3.0 gateway into inclusion/pairing mode with either methods.

- Add devices and manually select the device type
- Add devices and manually select the device type



Set the Smart Relay Lite into inclusion/pairing mode

- Short press the RESET button.
- The load light must be on, at the same time the indicator light will slowly flash BLUE, wait until pairing is successful or until 30 seconds timeout.

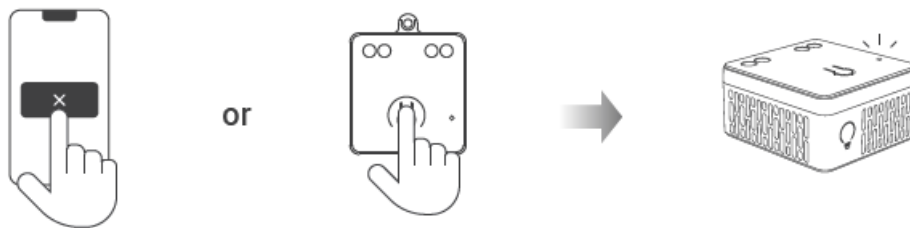


- If the Smart Relay Lite is successfully paired, the indicator will show BLUE when the load light is on.



Restore Smart Relay Lite to factory settings

- Remove the Smart Relay Lite from your Zigbee 3.0 gateway.
- Press and hold the RESET button for more than 5 seconds.
- If the Smart Relay Lite is successfully restored to factory settings, the indicator will show RED when the load light is on.



Troubleshooting

Q1	Smart Relay Lite pairing failed.
<p>The device may be too far from the gateway/coordinator or routing device, or there may be interference in the current network environment. Add routing devices or bring devices closer to the gateway/coordinator.</p> <p>The device is already joined to another gateway. Please restore the device to its factory default.</p>	
Q2	Cannot be controlled by gateway/coordinator or other Zigbee devices.
<p>The device may be installed in an unreasonable location, too far from the gateway or routing device, or there may be signal interference.</p> <p>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.</p> <p>Add routing devices or bring devices closer to the gateway/coordinator.</p>	
Q3	In case of power loss while the lights were on, the light status is on when power is restored?
<p>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.</p>	

Certifications regional

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 a minimum distance of 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.

Warranty Policy


For warranty information, please visit

<https://www.evvr.io/warranty>.

Please contact us for any technical issue

support@evvr.io.

Documents / Resources

	<p>EVVR SRB02A Smart Relay Lite [pdf] Instruction Manual SRB02A Smart Relay Lite, SRB02A, Smart Relay Lite, Relay Lite</p>
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