RENOGY
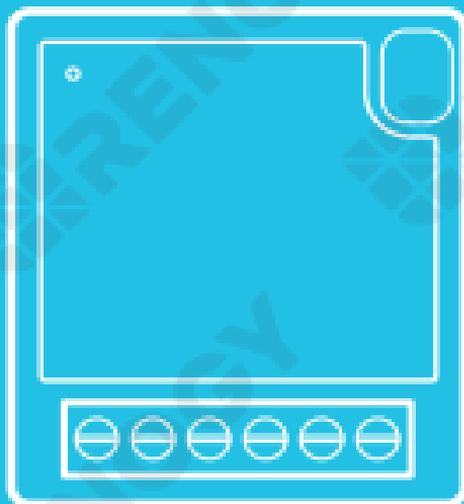
Smart Relay (Zigbee)

User Manual

Thanks to its built-in Zigbee 3.0 communication module, Smart Relay works with Renogy ONE to create a Zigbee LAN where you can control other connected devices intelligently and enable scene synchronization.

This User Manual contains instructions for Smart Relay. Please read the User Manual carefully before using the device.

⚠ CAUTION

- Please avoid exposing the components to direct sunlight. Do NOT allow water to enter Smart Relay. To ensure quality wireless communication, please keep it away from metal objects at a distance of at least 20 cm or 7.88 inches.

- After wiring, use PE double-sided adhesive to secure Smart Relay to the selected mounting location.
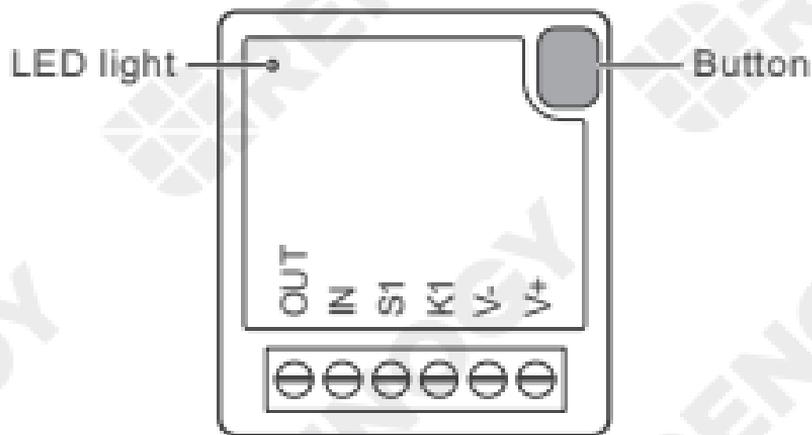
⚠ WARNING

- Do NOT disassemble Smart Relay because no parts inside it require maintenance or repair.

- Smart Relay can only be powered by a DC power supply (8V-30V); otherwise Smart Relay will be damaged. Risk of electric shock! Make sure the power supply is powered off before connection.

- When wiring, make sure the wire retainer in the hole is fully opened.

Product Overview

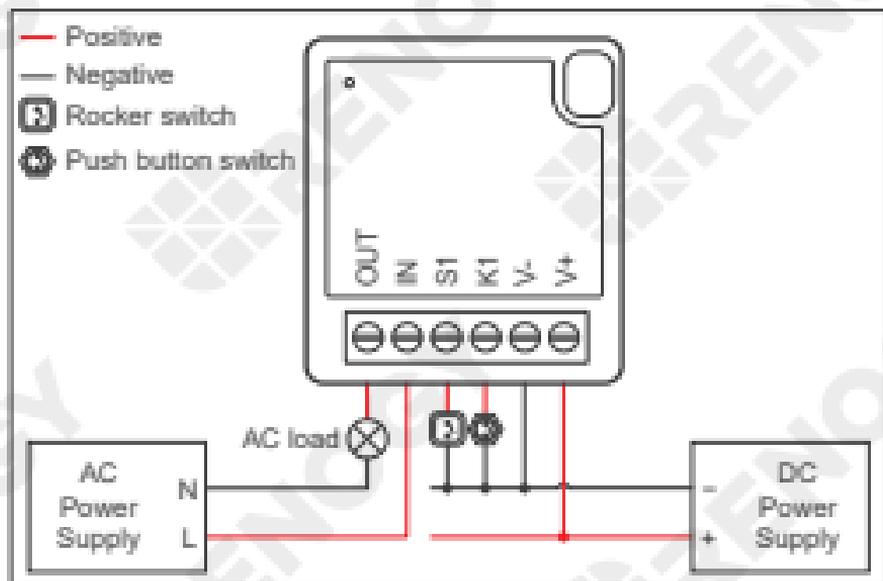| Wiring holes	Function
V+/V-	Smart Relay power supply hole, connecting to the positive/negative terminal of a DC power supply (8V-30V).
K1	Connecting to a push button switch to turn devices on or off.
S1	Connecting to a rocker switch to turn devices on or off.
IN	Connecting to the fire wire of an AC power supply or the positive terminal of a DC power supply.
OUT	Connecting to the positive side of the load.

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LED light — ● | ● — Button

OUT
IN
S1
K1
V-
V+

Part	Function
LED light	It displays the current operating status of Smart Relay. Flashing: Restoring to factory settings and waiting for network distribution, flashing for 3 minutes. On: Relay status-ON. Off: Relay status-OFF.

Part	Function
Button	Press: Power on/off Smart Relay. Long press for 5s: Factory reset.

Wiring Diagram

■ AC Load

Legend:
- Positive
- Negative
- R Rocker switch
- X Push button switch

OUT IN S1 K1 V- V+

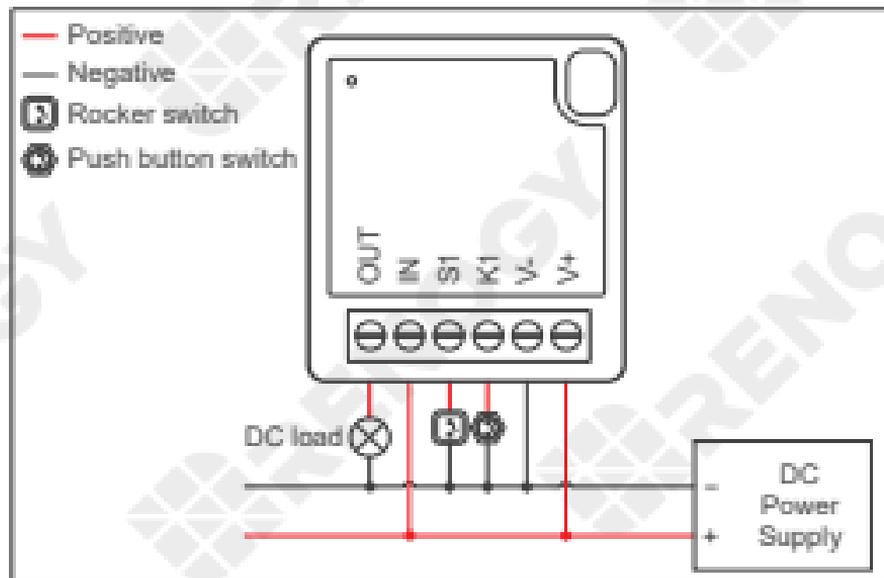AC load ⊗

AC Power Supply — N L

DC Power Supply — - +

⚠️ **WARNING**

- Connect the AC Power Supply to OUT/IN only; otherwise Smart Relay may be damaged.
- The input voltage of AC Power Supply shall not exceed 250 V.
- For an AC load, operating voltage: ≤ 250 V; operating current: ≤ 16 A.
- You can choose to connect your switch(es) to either, neither, or both of S1 and K1 to your circuit on demand.

DC Load

— Positive
-- Negative
🔲 Rocker switch
⬤ Push button switch

DC load ⊗

OUT IN S1 S2 K V +

DC Power Supply

⚠️ **WARNING**

- The input voltage of DC Power Supply shall not exceed 30 V.

- For a DC load, operating voltage: ≤ 30 V; operating current: ≤ 16 A.

- You can choose to connect your switch(es) to either, neither, or both of S1 and K1 to your circuit on demand.

Add Smart Relay (Zigbee) to Renogy ONE.

Smart Relay should be used in association with Renogy ONE. For more detailed instructions, please refer to the User Manual of Renogy ONE.

Factory Reset

Method 1: Long press the Button for 5s until the LED indicator flashes.
Method 2: Long press the push button switch connecting to K1 until the LED indicator flashes.
Method 3: Turn on/off the rocker switch connecting to S1 10 times continuously.

Technical Specifications

Parameter	Value
Model Name	RSHSRZ02P
Zigbee	IEEE 802.15.4 2.4GHz
Power Supply	8-30V DC
Load	250V AC/30V DC, 16A Max
Operating Temperature	-20°C-40°C (-4°F-104°F)
Operating Humidity	0-90%RH
Dimensions	20 x 40 x 44 mm (0.79 x 1.57 x 1.73 in)

Maintenance

For optimum performance, it is recommended to perform these tasks regularly.

- Ensure Smart Relay is mounted in a clean, dry, and ventilated area.
- Ensure there is no damage or wear on the cables.
- Make sure that Smart Relay is in normal state.
- Ensure there is no any corrosion, insulation damage, or discoloration marks of overheating or burning.

Technical Support

For additional support, contact the Renogy technical support team through renogy.com/contact-us. Have the following information available when contacting Renogy.

- Owner name
- Purchase channel
- Contact information
- Serial number
- Order number
- Brief description of the issue

Disclaimer

- Renogy makes no warranty as to the accuracy, sufficiency, or suitability of information in the User Manual because continuous product improvements are going to be made.

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