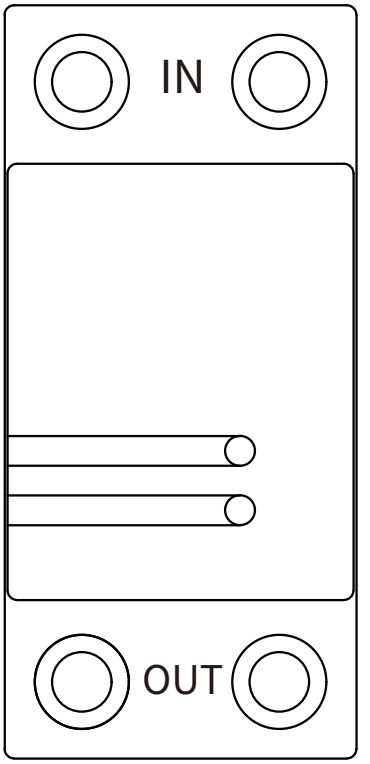


Din-Rail Relay

Quick Start Guide

Safety Handling

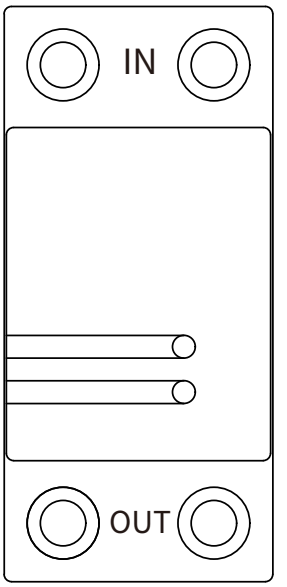
WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the relay and other property. Read all the safety notices below before using the relay.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit yourself.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.
- Do not use harsh chemicals or strong detergents to clean it.
- Do not place it where infants and young children can touch, children should use under parental supervision.
- Do not touch it when powering on to ensure your safety.
- Indoor use only.

Technical Specifications

Wireless Connectivity	
ZigBee	• 2.4GHz IEEE 802.15.4
ZigBee Profile	• ZigBee 3.0
RF Characteristics	• Operating frequency: 2.4GHz • Range outdoor: 100m (Open area)
Physical Specifications	
Relay	• Single break
Operating Voltage	• 100~240 Vac 50/60 Hz
Power consumption	• < 1W
Calibrated Metering Accuracy	• ⩽ 100W (Within ±2W) • >100W (Within ±2%)
Max. Load Current	Different models: 32 A/63 A
Operating environment	• Temperature: -20℃ ~ +55℃ • Humidity: ⩽ 90% non-condensing
Dimensions	• 81 (L) x 36(W) x 66 (H) mm
Weight	• 148g

1 Welcome



The Din-Rail Relay is a device with wattage (W) and kilowatt hours (kWh) measurement functions. It allows you to control On/Off status and to check real-time energy usage via mobile App.

This guide will provide you an overview of the product and help you to get through the initial setup.

Features:

- ZigBee 3.0
- Work with any standard ZigBee Hub
- Control your home device via Mobile APP
- Measure the instantaneous and accumulative energy consumption of the connected devices
- Schedule the device to automatically power electronics on and off
- Extend the range and strengthen ZigBee network communication

2 Installation

Important safety information!

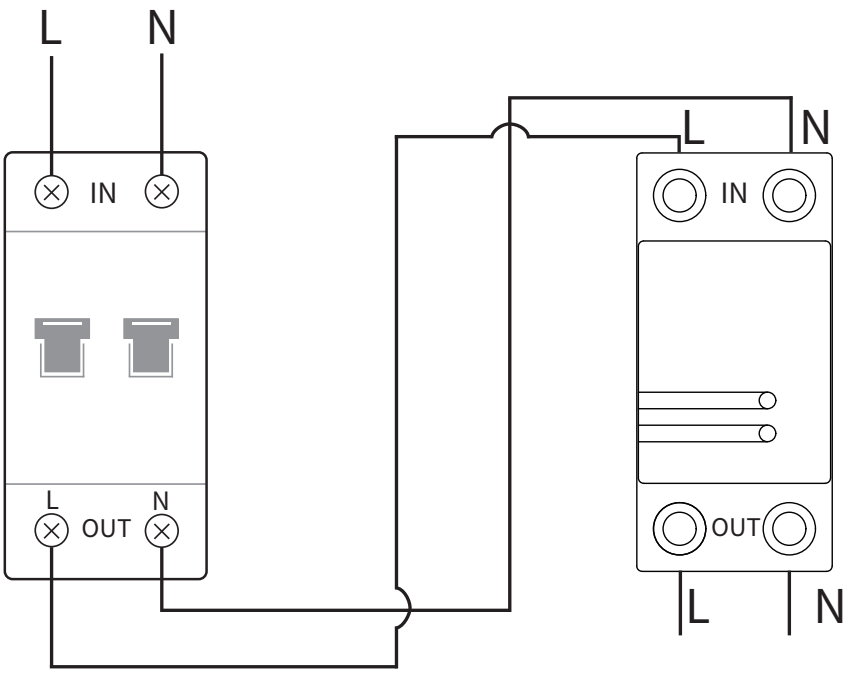
- The Din-Rail Relay must be installed and serviced only by qualified electrical personnel.
- Do not touch the terminals of the device during the testing.
- Turn off all power supplying this equipment before installing.
- Make sure that the power supply is off before connecting or disconnecting it to the auxiliary device.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

Note:

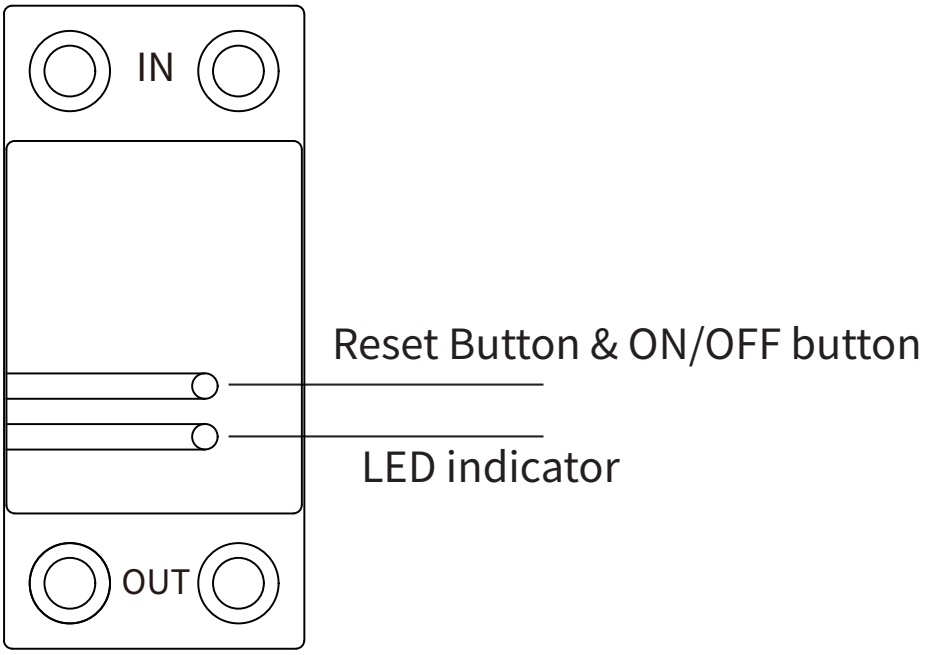
When installing, there must be a Residual Current Circuit Breaker in the circuit, and the Din-Rail Relay must be installed after output of the Residual Current Circuit Breaker.

Please keep the wiring diagram below for future reference.



Residual Current Circuit Breaker

3 Get to know your device



LED indicator

The LED status gives the following information of the Relay:

LED status	What it means
LED keep flashing	Device has not joined the network.
LED solid on	Device has joined the network.
Flashing three times	Identify mode/Return to Factory Settings.
Green LED	Device is ON
Red LED	Device is OFF

Reset button

- **Pair mode.** Press and hold the Reset button for about three seconds until the LED indicator flashes three times. Then you can bind it with other devices.
- **Reset.** Press and hold the Reset button for ten seconds. (The LED indicator will flash three times at third second and flash again at tenth second.) Then the Relay has restore to default factory settings.

(Note: This step will not clear the energy data.)

- **Clear energy data.** Restore the device to factory settings twice in a row, with a period of no more than 10 seconds.

4 Configure Network

4.1 To get started, you will need:

- A Zigbee Gateway.
- A mobile phone with a mobile APP installed.

4.2 Adding to the gateway's network

1. Set your gateway to permit joining(see your gateway's manual).
2. Power on the relay and make sure the LED indicator is flashing (If not, reset it to factory defaults), indicating it is ready to join the gateway's network.
3. After few seconds the relay will join the gateway automatically and the LED indicator will become steady when successfully joined.
4. Now you can control on/off status as well as measure the power consumption of the electric circuit.

Note: If the relay fails to join the gateway's network within one minute, simply reset the relay and retry.