frient Built-In Power Metering Instruction Manual

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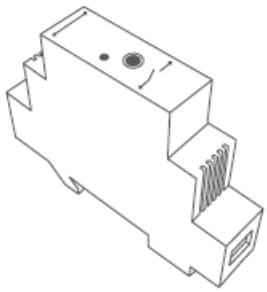
frient Built-In Power Metering

Smart DIN Relay



Product description

- The Smart DIN Relay consists of a DIN rail unit with a built-in relay. The Smart DIN Relay communicates via Zigbee and allows control of groups of home appliances instead each appliance individually.
- The Smart DIN Relay also includes built-in power metering functionality, which enables monitoring of the power consumption of each group of appliances.
- The Smart DIN Relay will help increase your awareness of energy consumption and waste. All data loggings are transmitted to a data concentrator.

Precautions

WARNING

Electrical equipment should only be installed, accessed, serviced, and maintained by qualified electrical personnel. Working with high voltage is potentially lethal. Persons subjected to high voltage may suffer cardiac

arrest, burn injuries, or other severe injuries. To avoid such injuries, make sure to disconnect the power supply before you start the installation.

WARNING

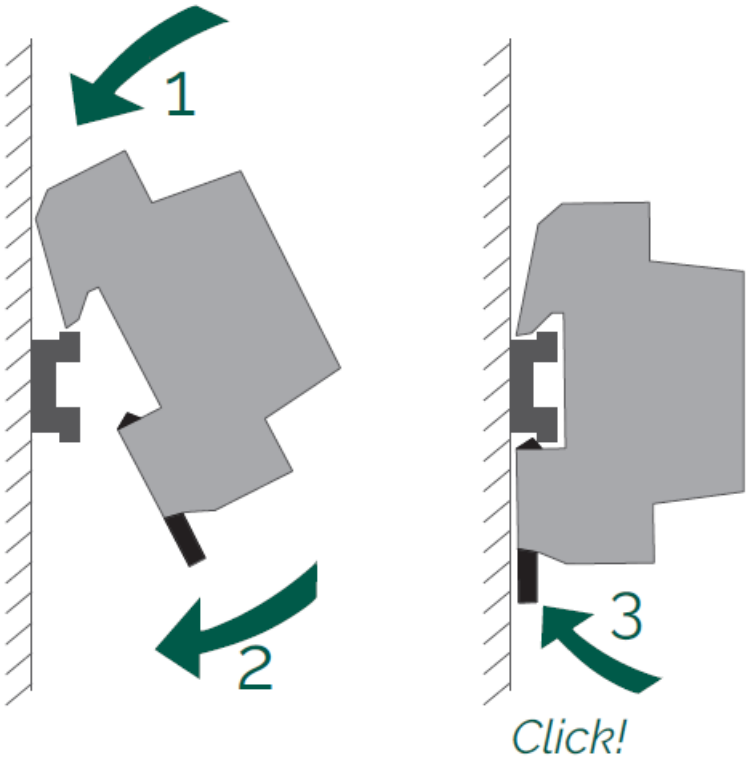
For safety reasons, it is recommended that the equipment is installed in a way that makes it impossible to reach or touch the terminal blocks by accident. The best way to make a safe installation is to install the unit in an enclosure. Further, access to the equipment should be limited through the use of a lock and key, controlled by qualified electrical personnel.

WARNING

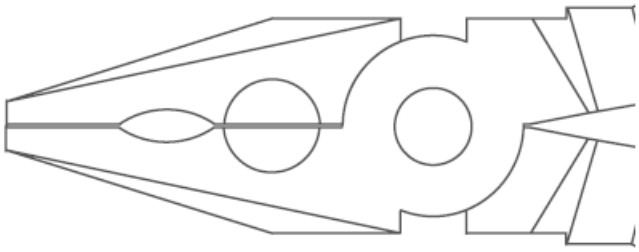
- The Smart DIN Relay must always be protected by fuses on the incoming side.
- Be careful that no liquid gets into the Smart DIN Relay since it may damage the equipment.
- Do not remove the product label as it contains important information.
- Avoid switching maximum loads frequently on or off, in order to sustain a long life.

Getting started

1. Disconnect the main power. For the duration of electrical work, electricity must be disconnected from the main switch of the property by removing the fuses for the work area.
2. Place the Smart DIN Relay on the DIN rail and make sure it snaps onto it.

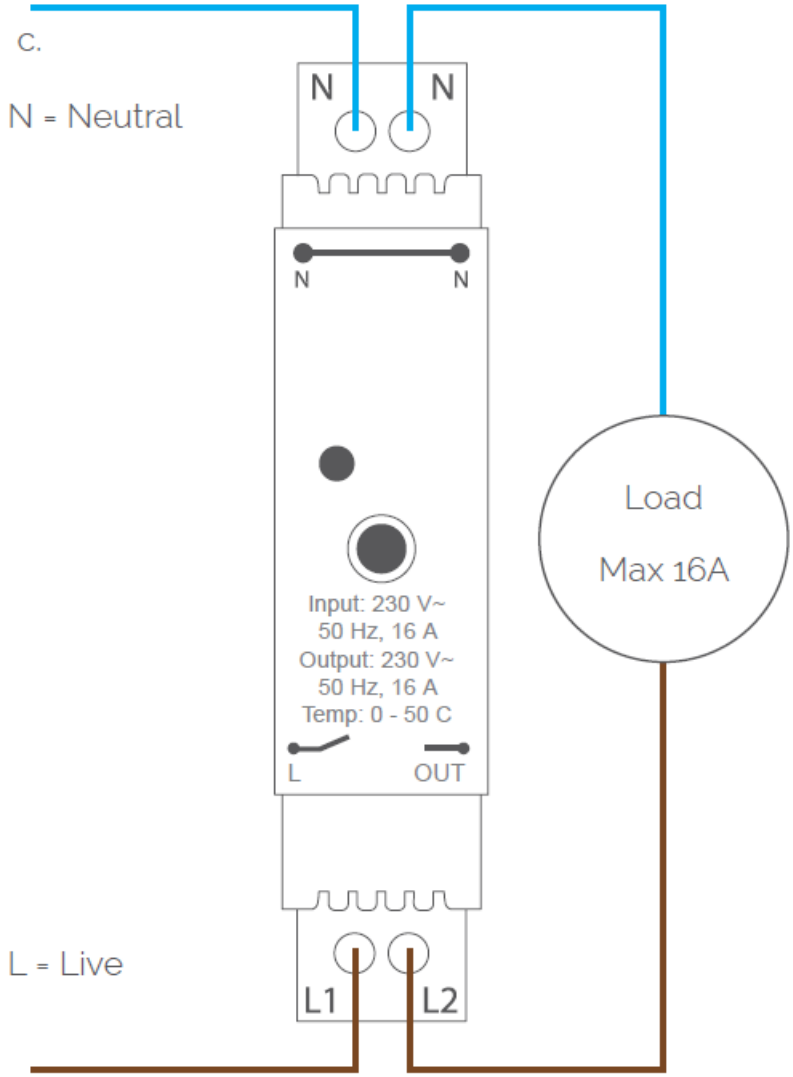


3. Strip the cable insulation to 5 mm.



4. Connect appropriate cables as shown in the section “Wiring diagram” and tighten the screws (0.8 Nm).
5. Turn on the main power.
6. The Smart DIN Relay will now start searching (up to 15 minutes) for a Zigbee network to join
7. Make sure that the Zigbee network is open for joining devices and will accept the Smart DIN Relay.
8. While the Smart DIN Relay is searching for a network, the LED is flashing red.
9. When the LED stops flashing, the Smart DIN Relay has successfully joined the Zigbee network.
10. The Smart DIN Relay’s output is active when the green LED is on.

Wiring diagram



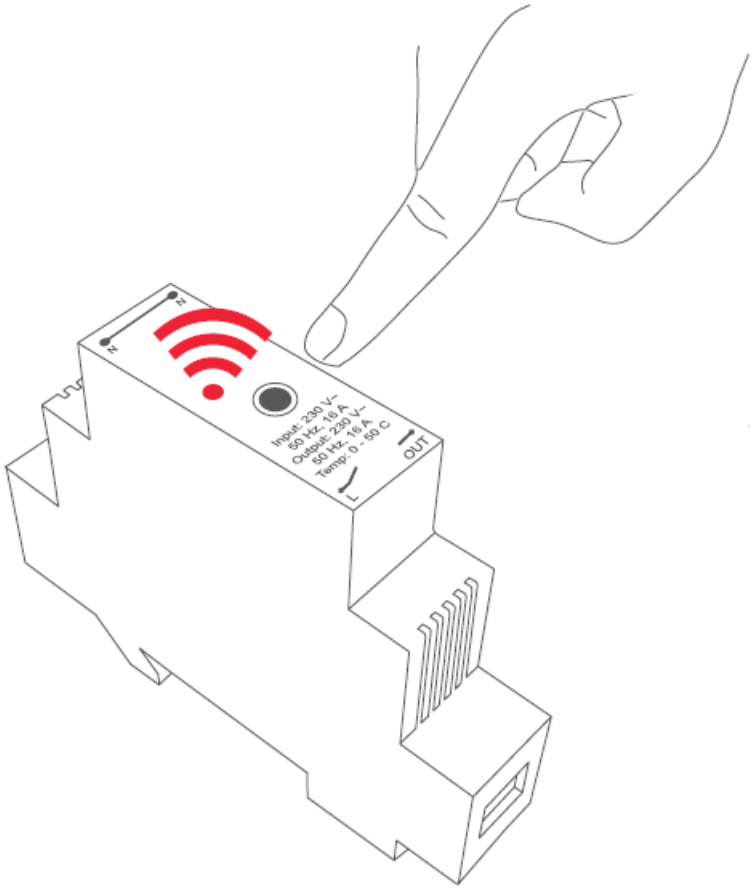
Connect Blue (Neutral) and Brown (Live) to 230VAC / 50Hz

Resetting

Resetting is needed if you want to connect your Smart DIN Relay to another gateway, if you need to perform a factory reset to remove abnormal behavior, or if you need to reset accumulative registers and logs.

STEPS FOR RESETTING

1. Press and hold down the button on the device.
2. Hold the button down until the red LED flashes continuously, then release the button.



3. After releasing the button, the red LED will stay on for 2-5 seconds. During that time, the device must not be switched off or unplugged.

Fault finding

- In case of a bad or weak signal, change the location of your gateway or insert a Zigbee router as a range extender.
- If the search for a gateway has timed out, a short press on the button will restart it.

Modes

SEARCHING GATEWAY MODE

- The red LED is flashing every second

ON MODE

- Green LED means that the Smart DIN Relay output is active (relay is on). The relay can be switched on and off by pushing the button.

OFF MODE

- When there is no light in the LED, the Smart DIN Relay output is inactive.

Other information

- The Smart DIN Relay will automatically switch off if the load exceeds 16 A or the internal temperature gets too high.
- In case of power failure, the device will restore itself to the on/off status it had before the power failure.

Disposal

- Dispose the product properly at the end of life. This is electronic waste, which should be recycled.

CE certification

- The CE mark affixed to this product confirms its compliance with the European Directives which apply to the product and, in particular, its compliance with the harmonized standards and specifications.

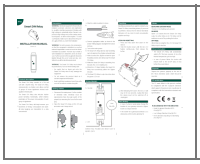
IN ACCORDANCE WITH THE DIRECTIVES

- Radio Equipment Directive (RED) 2014/53/EU
- Low Voltage Directive (2014/35/EU)
- RoHS Directive 2015/863/EU amending 2011/65/EU

Other certifications

- Zigbee Home Automation 1.2 certified

Documents / Resources

	**frient Built-In Power Metering** [pdf] Instruction Manual Built-In Power Metering, Built-In Power Metering, Power Metering

References

- **frient - sensors, alarms, smart plugs - home care and security**