NODON SIN-4-1-21 Zigbee Multifonction Relay Switch with Metering Instruction Manual

Contents

NODON SIN-4-1-21 Zigbee Multifonction Relay Switch with Metering

Product Information

- This product is a versatile consumer item designed to provide convenience and ease of use in various applications.
- It is built with high-quality materials to ensure durability and reliability.

Product Usage Instructions

Assembly

- Follow the assembly instructions provided in the manual to put together the different components of the product securely.

Power On

- Connect the product to a power source as per the guidelines specified in the manual.
- Ensure that the power source meets the required specifications.

Functionality

- Understand the different functions and features of the product by referring to the user manual.
- Experiment with the various settings to familiarize yourself with its capabilities.

Maintenance

- Regularly clean and maintain the product as per the instructions provided to ensure optimal performance and longevity.

FAQ

Q: How do I troubleshoot if the product malfunctions?

A: If you encounter any issues with the product, refer to the troubleshooting section in the manual for step-by-step instructions on resolving common problems.

Q: Can I use this product for outdoor applications?

A: This product is designed for indoor use only. Using it outdoors may void the warranty and expose it to environmental damage.

Specifications

- **Reference:** SIN-4-1-21
- **Power supply:** 230V AC ~ 50Hz
- **Switching capabilities:** 230V AC – 14A
- **Metering of instant power:** (W) and cumulated energy (Wh)
- **Consumption:** <1W
- **Max. Power:** 3.000W – Integrated Zero crossing
- RF Protocol: Zigbee 3.0
- **Radiofrequency range:** 2.4Ghz
- **RF power Max:** +10dBm
- **Range:** up to 40m indoor
- **Operational temperature:**
- **The SIN withstands ambient temperatures:**
  - Between -20 and 40° in the open air.
  - Between -20 and 35°C in a flush-mounted box.
  - Between -20 and 40°C in the NodOn DRB (Din Rail Box).
  - Between -20 and 40°C in the NodOn BPS
  - (Surface-Mounted Box).
- **Protection rating:** IP 20
- **Dimensions:** 40 mm (l) x 44 mm (L) x 16.9 mm (h)
- **Weight:** 34 g
- **Warranty:** 2 years

USE CAUTIONS

- Never use the device if it is not correctly installed and placed inside a connecting box in conformity with the current norms.
- Keep the product far away from liquids.

PRODUCT SUPPORT

- Go directly to the product support page at **nodon.fr/en/sin-4-1-21**.

APPROVALS AND CERTIFICATIONS

- Hereby, NodOn SAS declares that this radio equipment conforms to the RED directive 2014/53/UE. The integral text of the EU Declaration of Conformity is available at the following online address: **nodon.fr/en/** ”support” section.
- Hereby, NodOn declares that the radio equipment type direct current motor controller complies with RER 2017 (SI 2017/1206). The full text of the UK Declaration of Conformity is available at the following internet address: **nodon.fr/en/** ”support” section..

UK importer address

- xxx
- xxx

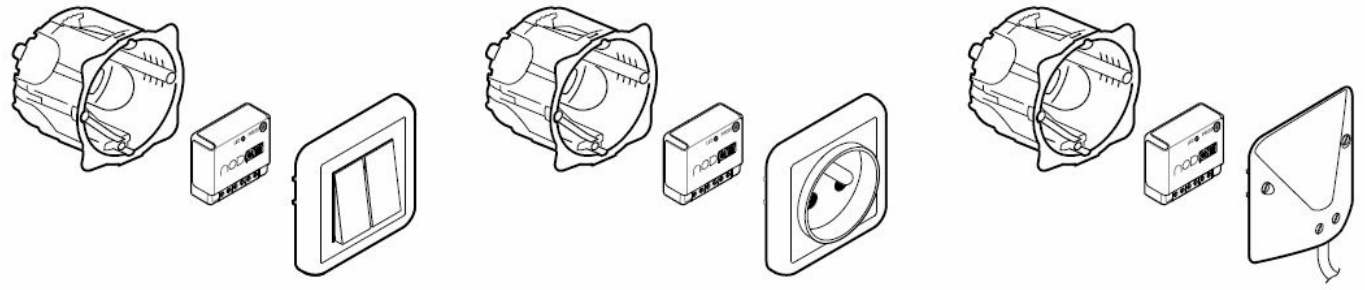
The presence of this symbol on a product indicates that this one conforms to the European directive 2012/19/UE. Find out more about the provisions in force in your region regarding the separate collection of electrical and electronic devices. Respect the local rules and do not throw out the products with common domestic waste. The correct rejection of ancient products allows to the preservation of the environment and health.

- This product must be used indoors only.
- The device is used 20 cm or more from the human body.
- This product conforms to Zibgee radio protocol.

DANGER OF ELECTROCUTION

BEFORE ANY INSTALLATION MAKE SURE THE POWER SUPPLY IS DISCONNECTED TO AVOID ANY RISK OF ELECTROCUTION.
Directly cut the power supply from the breaker box to avoid any risk of electrocution. This relay switch is designed to be used power up, a wrong installation can create a fire or an electric shock. If you are not confident about electrical installation, please ask a professional.
The relay switch must be installed and connected carefully following the instructions of this user guide. We will not be responsible for any loss or damage resulting from a non-respect of the instructions of this user guide. Cut the power supply before any operation and don’t do any modification if the LED is still ON.

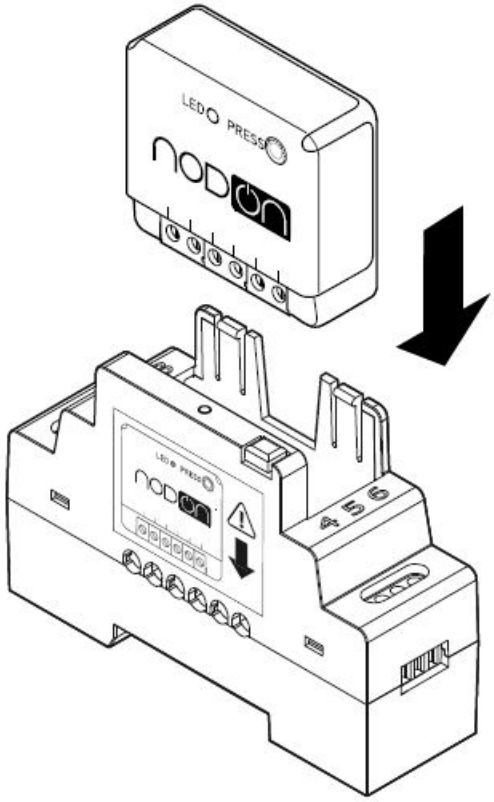
INSTALLATION



- Thanks to its compact size, the Zigbee Multifunction Relay Switch with metering can be installed behind a wall switch, an electrical outlet or a cable outlet.

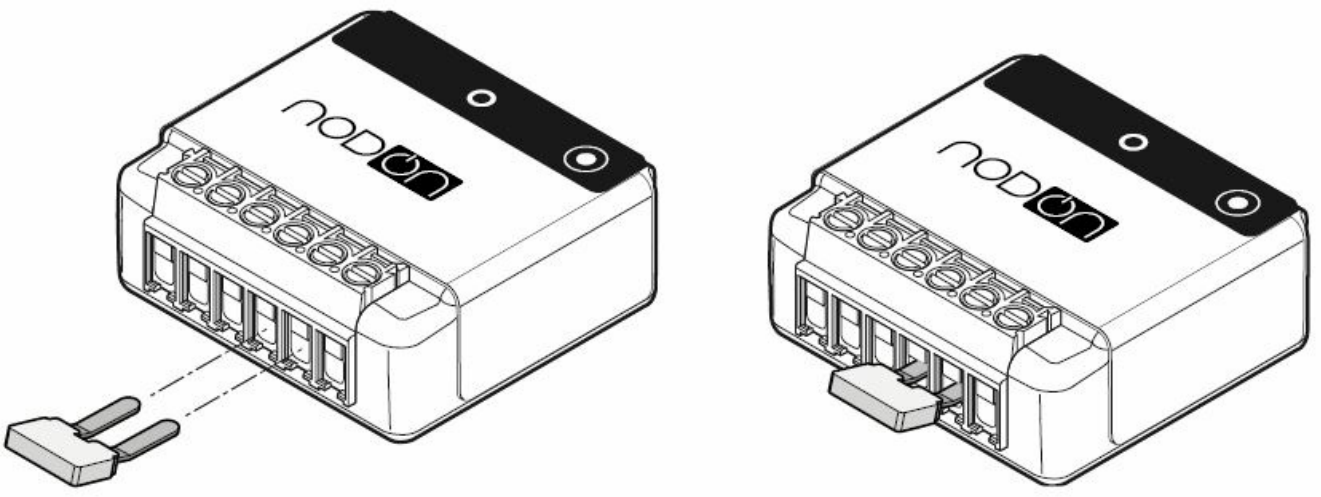
TIP

- Add the Zigbee Multifunction Relay Switch with metering to the electric panel with NodOn DIN Rail Box*.*
- Optional accessory



SHUNT (INCLUDED)

- Optional according to use.
- Attach the shunt to the terminal blocks indicated (see below).



RELAY SWITCH INPUT/OUTPUT

N	Terminal for the Neutral
L	Terminal for the Line
	Input terminal for the wired switch**
kWh	Connect these 2 terminals with a shunt (included)
	Line output terminal

- Each terminal should be installed with a cable from 1.5mm² to 4mm² maximum, stripped of 8mm.
- Wired switch optional.

INSTALLATION – ELECTRICAL OUTLET

METERING

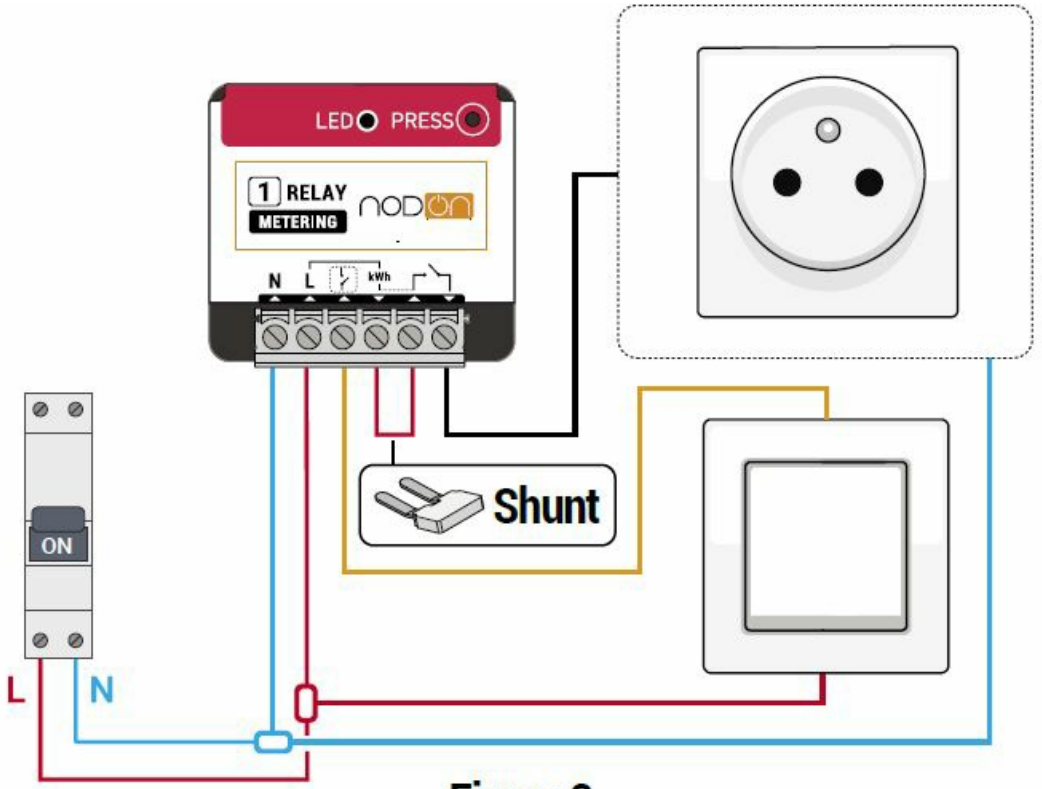


Figure 2

1. Cut the power supply.
2. Disassemble the electrical outlet and the wall switch.
3. Wire the Zigbee Multifunction Relay Switch with metering, following the diagram in Figure 1.
4. Reassemble the electrical outlet and the wall switch.
5. Turn the power back ON.

AUTO-DETECTION OF SWITCH TYPE

When you turn the power supply ON (via the electrical box for example) once the relay switch is installed, it is necessary to perform a simple action (single press on the button) on the wired switch. Automatic detection of the type of switch (monostable or bistable) will then be performed.

INSTALLATION – BOILER (HELD DRY CONTACT WITHOUT METERING)

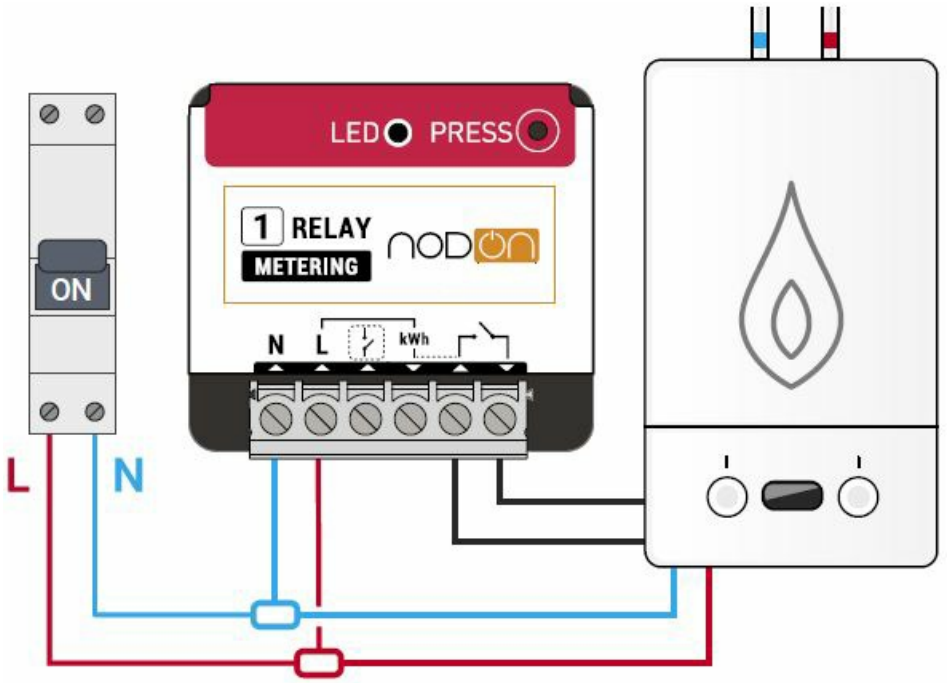
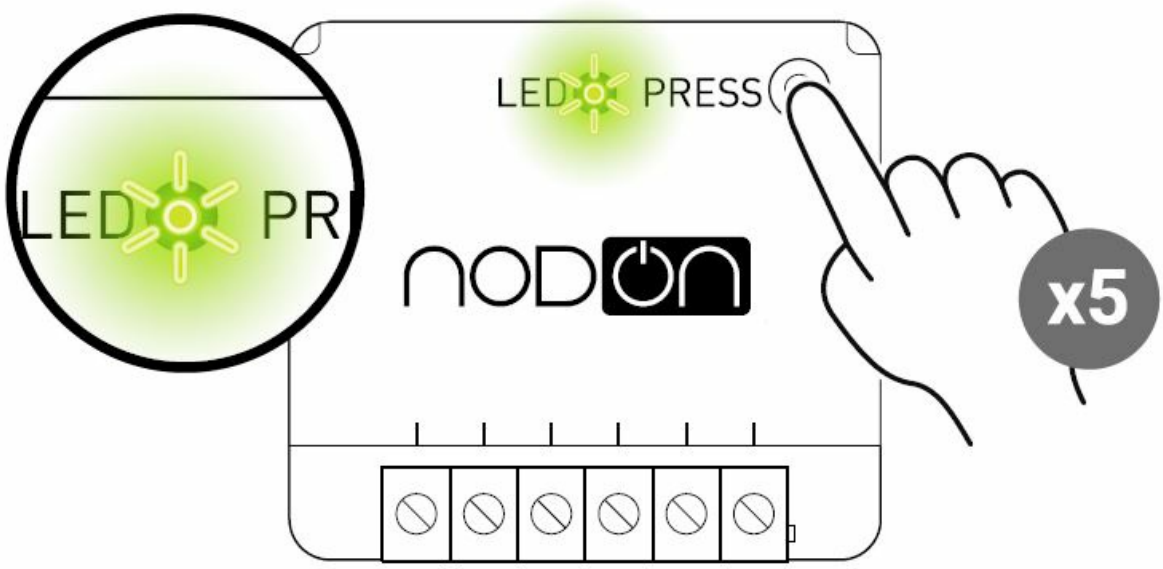


Figure 3

1. Cut the power supply.
2. Disassemble the cable outlet.
3. Wire the Zigbee Multifunction Relay Switch with metering following the diagram in Figure 2, making sure to connect the two wires that control the ambient thermostat (see your boiler user guide).
4. Reassemble the cable outlet.
5. Turn the power back ON.

IMPULSE MODE

It is imperative to activate the impulse mode before pairing your module to your home automation gateway to control your gate/garage door/electric latch to avoid damaging your equipment.
Relay switch must be power-supplied



1. Do 5 brief presses on the button of the relay switch.

The LED pulses in green, confirm the activation of the control access mode.

2. You can continue the installation procedure.

Note: To deactivate the impulse mode, repeat a series of 5 short presses.

INSTALLATION – GATE/GARAGE DOOR/ ELECTRIC LATCH
(DRY CONTACT IMPULSE MODE WITHOUT METERING)

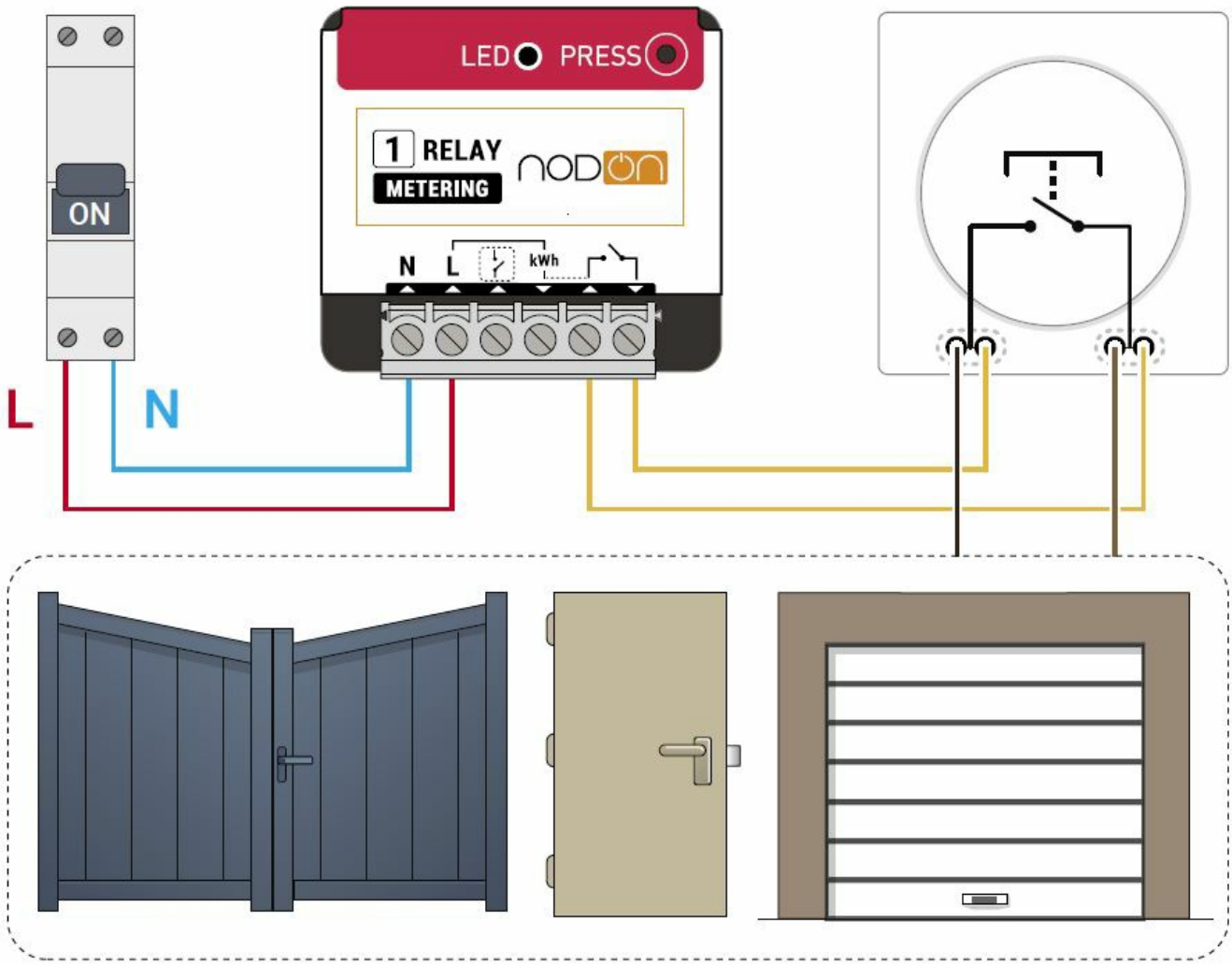


Figure 1

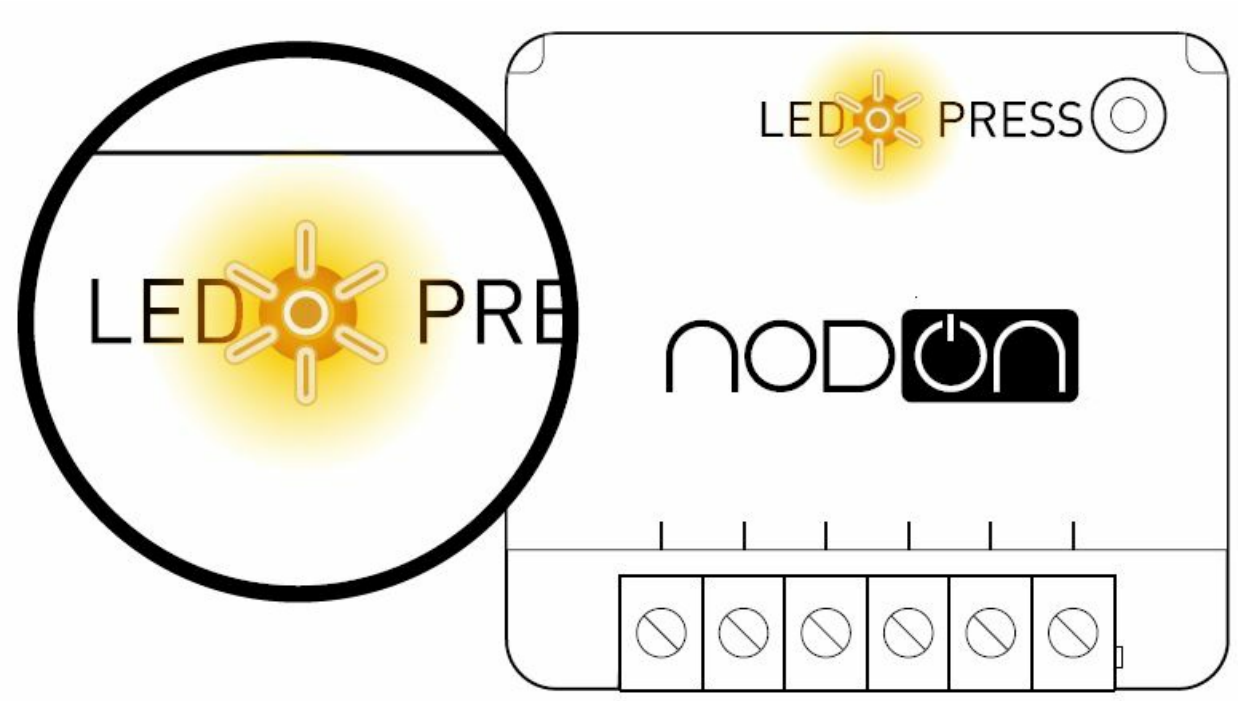
1. Cut the power supply
2. Disassemble the push-button which controls the gate/ garage door/electric latch.
3. Wire the Zigbee Multifunction Relay Switch with metering, in parallel to the push-button following the diagram Figure 3.
4. Reassemble the push-button which controls the gate/ garage door/electric latch.
5. Turn the power back ON.

Warning: Activate the impulse mode (see the section) before pairing to avoid any damage to your equipment.

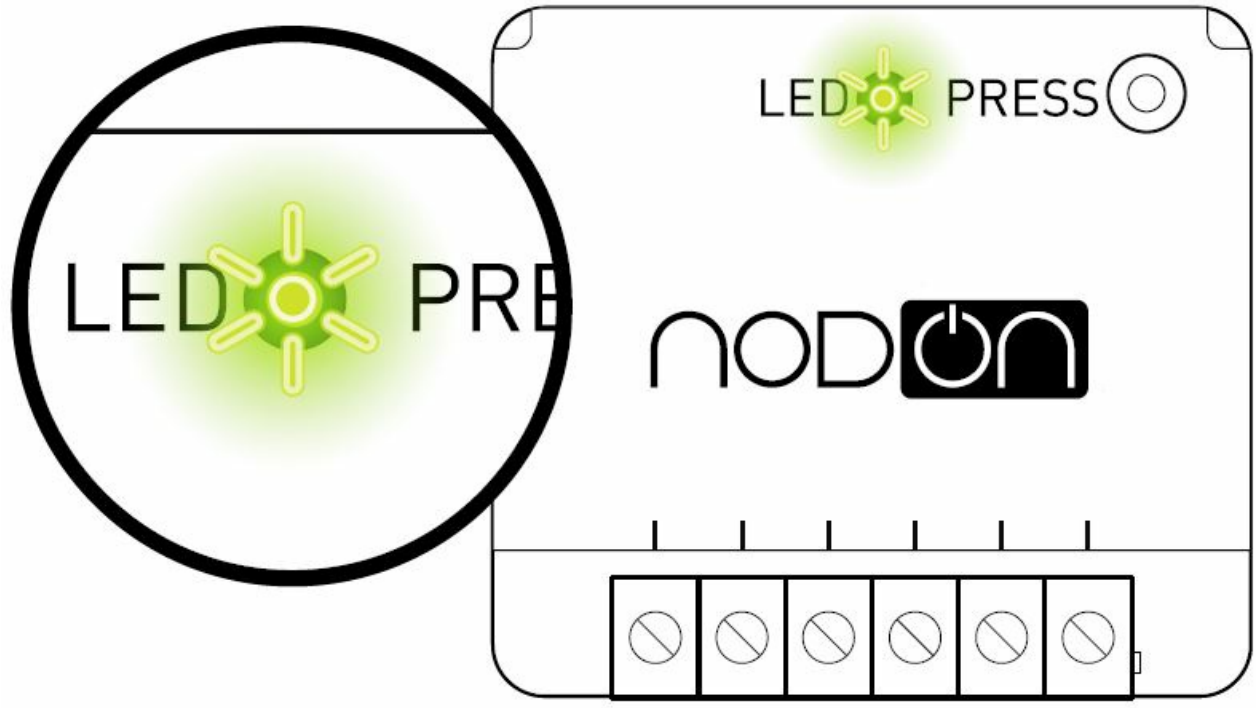
INSTALLATION DIAGRAMS

- Find all the installation diagrams in the “support” section on nodon.fr/en/.

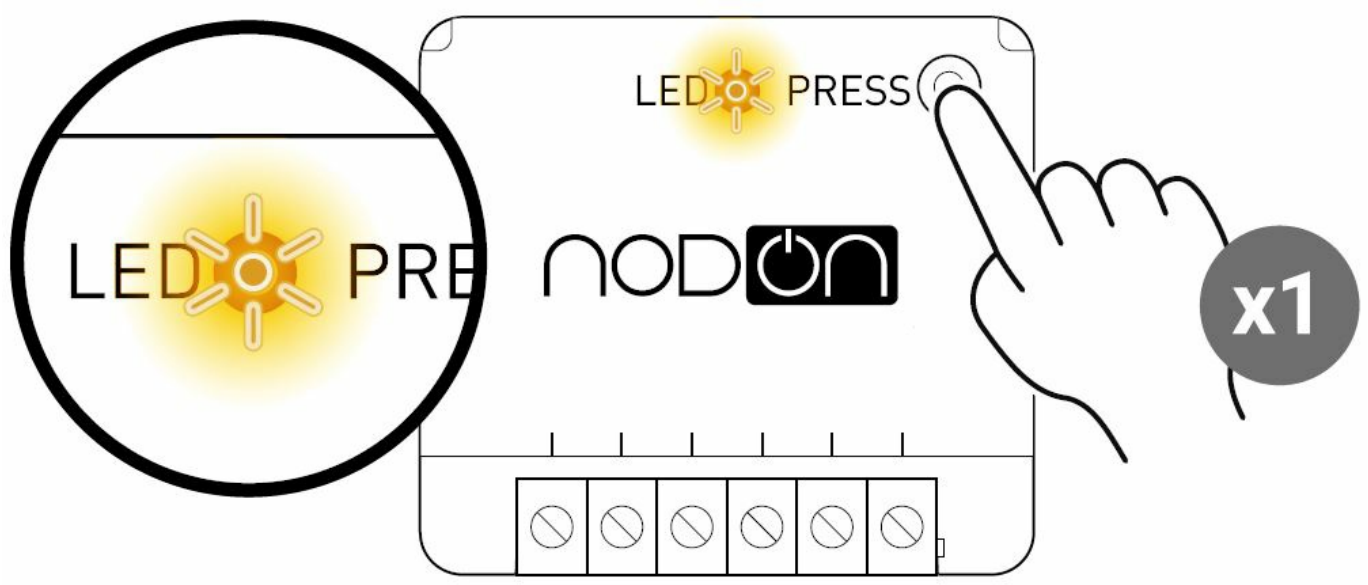
ADDING TO A ZIGBEE NETWORK



- When power is turned ON, the relay switch Led will blink orange, looking to join a Zigbee network.
- Go to your Zigbee gateway app to activate the relay switch detection. See the compatible home automation gateways on nodon.fr/en/support/.



- If the relay switch has correctly joined the network, the Led becomes green. The relay switch is ready for use.



- If the relay switch hasn't joined a network within 15 minutes, the LED becomes orange. Do a brief press on the relay switch button and start again.

UNPAIRING PROCEDURE

- To remove the module from its network, perform a Module Reset (see "Reset Procedure").

RESET PROCEDURE

Relay switch must be power supplied.

1. Press more than 5 seconds on your module's button.
   The Led blinks orange.
2. Press the button again (short press) to validate the reset.
   If the reset is successful, the LED flashes red and green alternately, then flashes orange. Repeat if necessary.
3. Your module has returned to its original configuration and is ready to join a new Zigbee network.

CONTACT

- NodOn SAS
- 121 rue des Hêtres
- 45590 St CYR EN VAL (FRANCE)

AFTER-SALES SERVICE

- **nodon.fr/en/** "support" section **support@nodon.fr**.

Documents / Resources

	NODON SIN-4-1-21 Zigbee Multifonction Relay Switch with Metering [pdf] Instruction Manual SIN-4-1-21 Zigbee Multifonction Relay Switch with Metering, SIN-4-1-21, Zigbee Multifonction Relay Switch with Metering, Multifonction Relay Switch with Metering, Switch with Metering, Metering

References

- User Manual