

NodOn ZIGBEE MULTIFUNCTION RELAY SWITCH User Manual

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NodOn ZIGBEE MULTIFUNCTION RELAY SWITCH User Manual

SPECIFICATIONS

- Reference: SIN-4-1-20
- Power supply. 230V AC 50Hz
- Switching capabilities: 230V AC – 16A
- Consumption: e5W
- Max. Power. 3680W – Integrated Zero crossing
- RF Protocol: Zigbee 3.0
- Radio frequency range: 2.4Ghz
- RF power Max: +10dBm
- Range: up to 40m indoor
- Operational temperature: -200C to 600C
- Protection rating: IP 20

- Dimensions: 40 mm (l) x 44 mm (L) x 16.9 mm (h)
- Weight: 34 g
- Warranty: 2 years

CONTACT

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121 rue des Hêtres
45590 St CYR VAL
(FRANCE)

AFTER-SALES SERVICE

nodon.fr/en/ 'Support' section
support@nodon.fr

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.

DETAILED USER GUIDE

Directly access the detailed user guide on the Support section on nodon.fr/en/technical-support/



APPROVALS AND CERTIFICATIONS



Hereby, NodOn SAS declares that this radio equipment is conform 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 UK equipment type direct current motor controller is in compliance 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:



The presence of this symbol on a product indicates that this one is conform 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 electronical devices. Respect the local rules and do not throw out the product with common domestic wastes. The correct rejection of ancient products allows to preserve the environment and health.



This product must be used indoor only.



The device is used 20 cm or more from the human body.



This product is conform to Zigbee radio protocol.

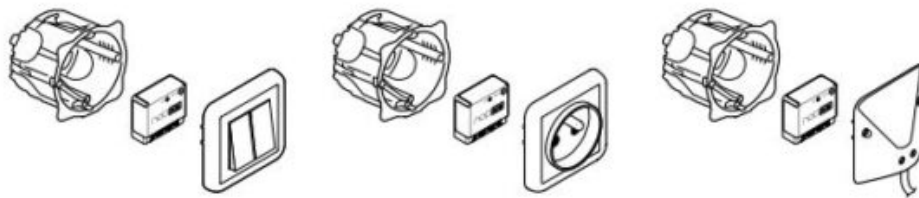
DANGER OF ELECTROCUTION

BEFORE ANY INSTALLATION MAKE SURE THE POWER SUPPLY IS DISCONNECTED TO AVOID ANY RISK OF ELECTROCUTION.

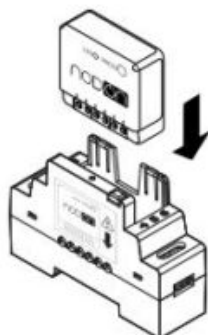
Directly cut the power supply from the breaker box to avoid any risk of electrocution. This relay switch is designed to be used power up, a wrong installation can create a fire or an electric shock. If you are not confident about electrical installation, please ask a professional.

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 nonrespect 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 Multifunction Relay Switch can be installed behind a wall switch, an electrical outlet or a cable outlet.



Add the Multifunction Relay Switch to the electric panel with NodOn DIN Rail Box*.

*Optional accessory

RELAY SWITCH INPUT/OUTPUT

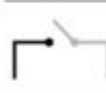


N Terminal for the Neutral

L Terminal for the Line

 Input terminal for the wired switch 1 (I1)*

 Not used

 Input terminal, the potential will pass through the output terminal

 Output terminal

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

*Wired switch optional.

**INSTALLATION – GATE/GARAGE DOOR/
ELECTRIC LATCH – MPULSE MODE DRY CONTACT**

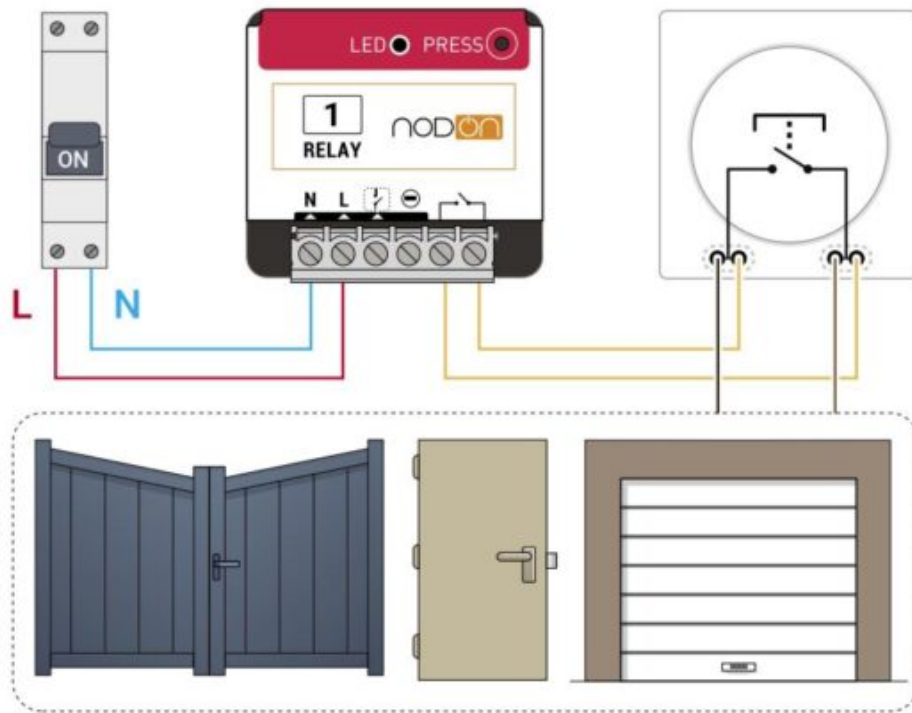


Figure 1

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

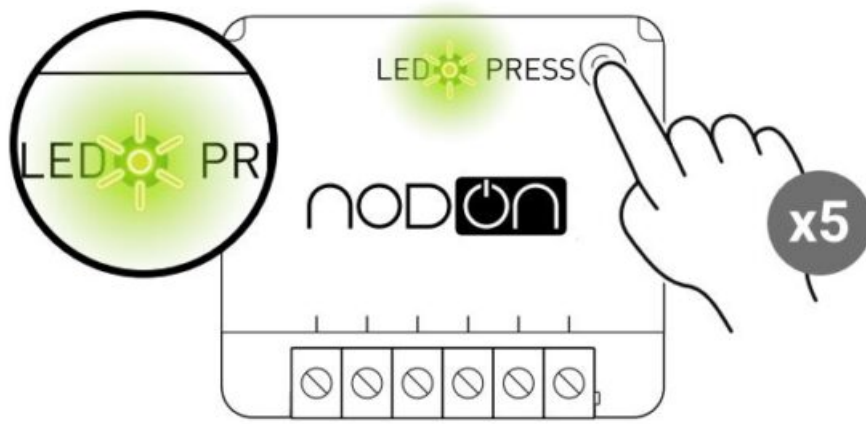


Warning: Activate the impulse mode (see the section) before pairing to avoid any damage of your equipment.

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, confirming 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 – ELECTRICAL OUTLET

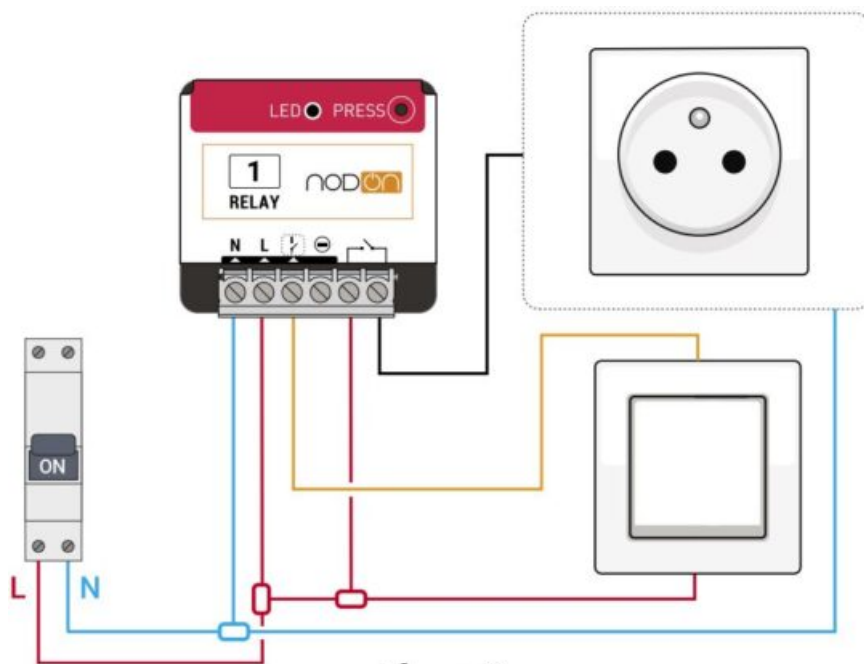


Figure 2

1. Cut the power supply.
2. Disassemble the electrical outlet and the wall switch.
3. Wire the Multifunction Relay Switch, following the diagram figure 2.
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

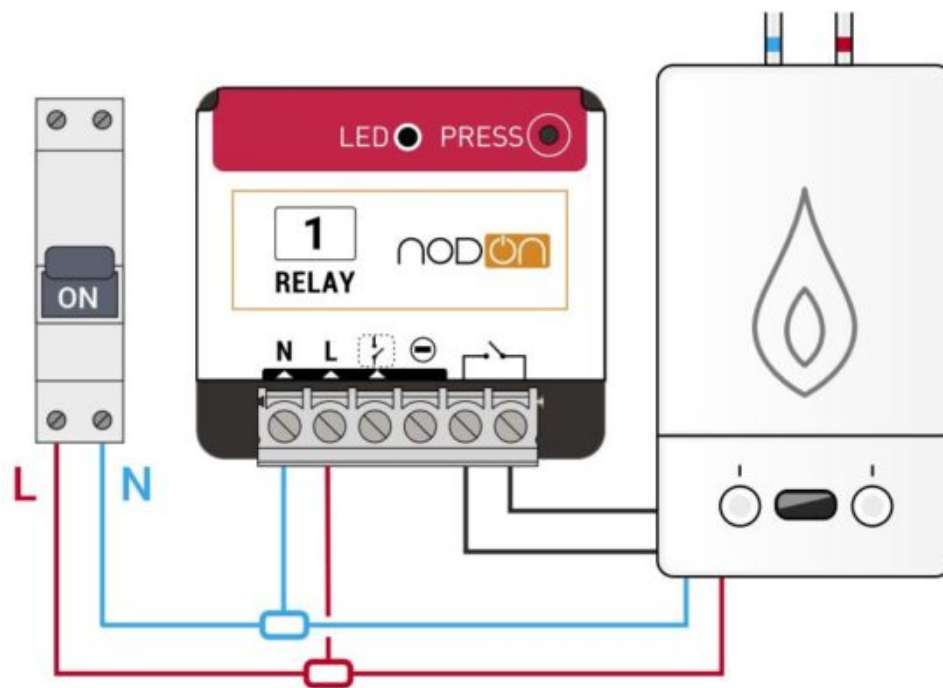


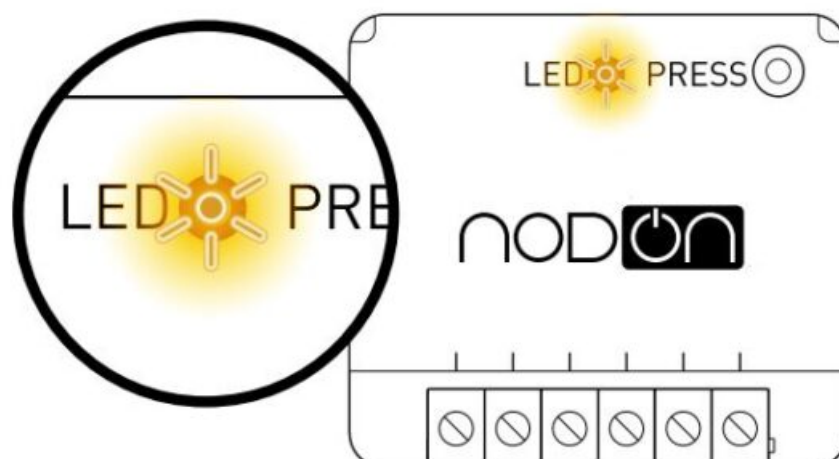
Figure 3

1. Cut the power supply.
2. Disassemble the cable outlet.
3. Wire the Multifunction Relay Switch following the diagram figure 3, making sure to connect the two wires which controls the ambient thermostat (see your boiler user guide).
4. Reassemble the cable outlet.
5. Turn the power back ON.

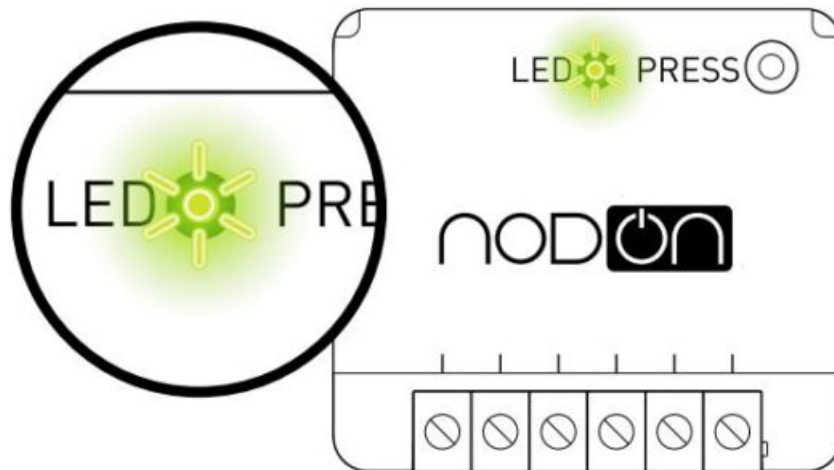
INSTALLATION DIAGRAMS

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

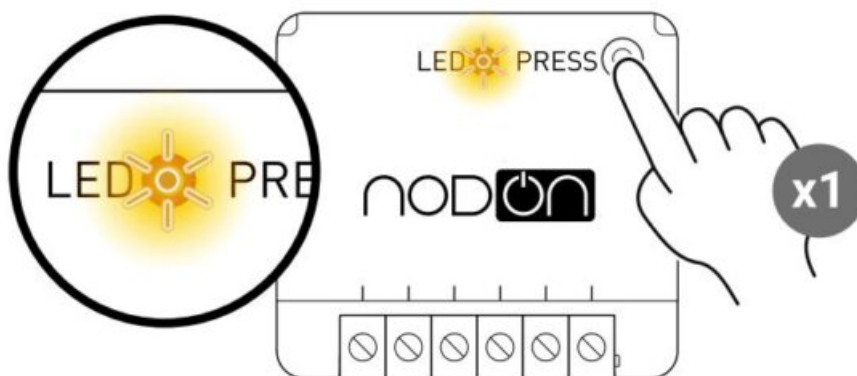
ADDING TO A ZIGBEE NETWORK



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.

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References

- [🔌 Fabricant domotique OBL - OEM - ODM pour la Maison Connectée](#)
- [🔌 Smarte Wohnungen & Häuser - OEM ODM OBL Lösungen für IoT Produkte](#)
- [🔌 technische Unterstützung für NodOn | technische Dokumentationen, Lernprogramme, Anwendungsbeispiele](#)
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