



This module is used for switching on or off an electrical vice (e.g. light or fan). The module can be controlled her through a NEXUS-NERO Communications Gateway through a wall switch.

The module measures the power consumption of the electrical device and supports the connection of a digital temperature sensor.

It is designed to act as repeater in order to improve range and stability of the Z-Wave Network.

Supported switches

The module supports **momentary** switches (push button) and **toggle** switches. The module is factory set to operate with toggle switches.

Installation

Before the installation, disconnect the power supply. Connect the module according to electrical diagram. Locate the antenna as far as possible from metal elements. Do not shorten the antenna.

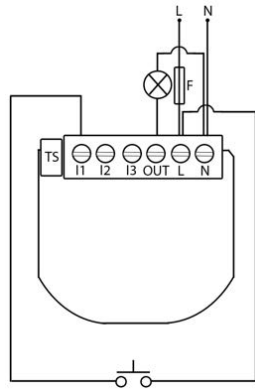
Danger of electrocution!

Module installation requires a great degree of skill and may be performed only by a qualified and licensed electrician. Even when the module is turned off, voltage may be present on its terminals. Any works on configuration changes related to connection mode or load must always be performed with a disconnected power supply.

Note!

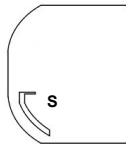
Do not connect the module to loads exceeding recommended values. Connect the module only in accordance to the below diagram. Improper connections may be dangerous. Electrical installation must be protected by over current protection fuse not rated any higher than 10A as illustrated in the wiring diagram.

Electrical diagram 230VAC



Notes for the diagram:

- N** Neutral
- L** Live
- OUT** Output for electrical device
- I3** Optional switch input
- I2** Optional switch input
- I1** Input for switch/push button
- TS** Terminal for digital temperature sensor



S SYNC button (used to add or remove module from the Z-Wave Network).

NOTE: SYNC button S can't be used when module is connected to 230V power supply.

Module Inclusion (Adding to Z-Wave Network)

- Connect module to power supply (with temperature sensor connected - if applicable)
- Put NEXUS-NERO Communications Gateway into inclusion mode
- Auto-inclusion (works for about 5 seconds after power supply is connected) or
- Press SYNC button **S** for more than 2 second or
- Press push button **I1** three times within 3s

NOTE 1: For auto-inclusion, ensure the module has been wired correctly, set the NEXUS-NERO Communications Gateway into inclusion mode and then liven the circuit, supplying power to the module.

NOTE 2: When connecting the temperature sensor to the module that has already been included, you have to exclude module first. Switch off power supply, connect the sensor and re-include the module.

Module Exclusion/Reset (Removing from Z-Wave Network)

- Connect module to power supply

- Bring module within maximum 1 meter (3 feet) of the NEXUS-NERO Communications Gateway
- Enable add/remove mode on NEXUS-NERO Communications Gateway
- Press sync button **S** for more than 6 seconds or
- Press push button **I1** five times within 3s in the first 60 seconds after the module is connected to the power supply.

By this function all parameters of the module are set to default values and own ID is deleted.

If SYNC button **S** is pressed more than 2 and less than 6 seconds (or if push button **I1** is pressed three times within 3s) module is excluded, but configuration parameters are not set to default values.

	Press SYNC Button	Press Wall Switch
Include	> 2s	3 times within 3s
Exclude & save parameters	2 - 6s	3 times within 3s
Exclude & restore default parameters	> 6s	5 times within 3s

Configuration parameters

Parameter no. 1 – I1 switch type

Available parameters (data type is 1 Byte DEC):

- Default value 1
- 0 - Momentary switch type (push button)
- 1 - Toggle switch type

Parameter no. 30 - Saving the state of the relay after a power failure

Available parameters (data type is 1 Byte DEC):

- Default value 0
- 0 – NERO-RELAY module saves its state before power failure (it returns to the last position saved before a power failure)
- 1 – NERO-RELAY module does not save the state after a power failure, it returns to "off" position.

Additional parameters include:

- Power reporting settings
- Temperature sensor settings

For configuration parameter instructions, please refer to advanced training modules at www.environexus.com.au

Technical Specifications

Power supply	110 - 230 VAC ±10% 50/60Hz, 24-30VDC
Rated load current of AC output (resistive load)*	1 X 10A / 230VAC
Rated load current of DC output (resistive load)**	1 X 10A / 30VDC
Output circuit power of AC output (resistive load)	2300W (230VAC)
Output circuit power of DC output (resistive load)	240W (24VDC)
Power measurement	P=5-50W, +/-3W

accuracy	P>50W, +/-3%
Digital temp. sensor range (must be ordered separately)	-50 ~ +125°C
Operation temperature	-10 ~ +40°C
Distance	Up to 20m indoors
Dimensions (WxHxD)	41.8x36.8x15.4mm
Weight	28g
Electricity consumption	0.4W
For installation in boxes	Ø ≥ 60mm or 2M

* In case of load other than resistive, pay attention to the value of cos φ and if necessary apply load lower than the rated load.

** For DC applications please refer to the advanced training modules at www.environexus.com.au

Supported loads:

- Electric motor
- Conventional incandescent and halogen lights
- LED bulb, compact fluorescent bulb (CFL), low voltage halogen bulbs with electronic transformer
- Low voltage halogen bulbs with conventional transformer

Important disclaimer

Z-Wave Network wireless communication is inherently not always 100% reliable, and as such, this product should not be used in situations in which life and/or valuables are solely dependent on its function.

Warning!

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

Environexus

1066 Dandenong Rd
Carnegie
Melbourne, VIC
Australia
E-mail: admin@environexus.com.au
Web: www.environexus.com.au



N29634