nero

powered by environexus

NERO-DRY

080687 461639

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

The NERO-DRY module supports connection of a digital temperature sensor.

It is designed to act as repeater in order to improve range and stability of 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 far from metal elements (as far as possible).
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 work on configuration changes related to connection mode or load must be always performed with a disconnected power supply.
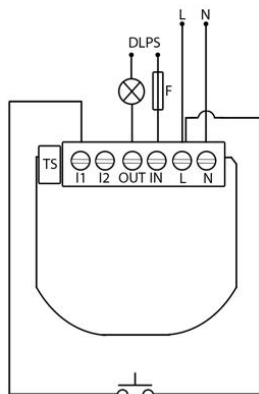
Note!

Do not connect the module to loads exceeding recommended values. Connect the module only in accordance to the below diagrams. 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.
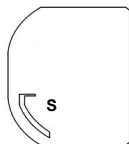

Electrical diagram 230VAC
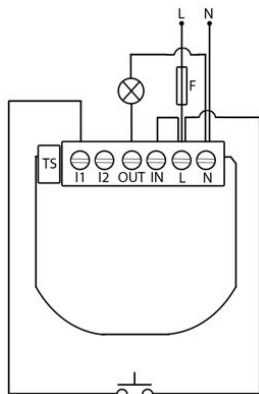
Option for different load power supply - DLPS:

Notes for the diagrams:

N	Neutral
L	Live
IN	Input for electrical device power supply
OUT	Output for electrical device
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.

Output contact is voltage free (dry contact), so also loads

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with different power supply can be connected to the module.

Module Inclusion (Adding to Z-Wave Network)

- Connect module to power supply (with temperature sensor connected - if purchased),
- Put NEXUS-NERO into inclusion mode
- Auto-inclusion (works for about 5 seconds after connected to power supply) 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.

NOTE2: 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 second 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-DRY module saves its state before power failure (it returns to the last position saved before a power failure)
- 1 - NERO-DRY module does not save the state after a power failure, it returns to "off" position.

Parameter no. 63 – Output Switch selection

Set value means the type of the device that is connected to the output. The device type can be normally open (NO) or normally close (NC).

Available parameters (data type is 1 Byte DEC):
- Default value 0
- 0 - When system is turned off the output is 0V (NC).
- 1 - When system is turned off the output is 230V or 24V (NO).

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)
Digital temperature sensor range (sensor must be ordered separately)	-50 ~ +125°C
Operation temperature	-10 ~ +40°C
Distance	Up to 20 m 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

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Supported loads:

- (M) Electric motor
- Convent. incandescent and halogen lights
- LED and CFL bulb, low voltage halogen bulbs with electronic transformer
- Low voltage halogen bulbs with conventional transformer

Important disclaimer

Z-Wave Network wireless communication is inh[...] always 100% reliable, and as such, this product [...] be used in situations in which life and/or valu[...] solely dependent on its function.

Warning!

Do not dispose of electrical appliances as [...] municipal waste, use separate collection facilitie[...] Contact your local government for information [...] the collection systems available. If electrical appl[...] disposed of in landfills or dumps, hazardous s[...] can leak into the groundwater and get into the f[...] damaging your health and well-being.

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