User Manual Relay 4HP

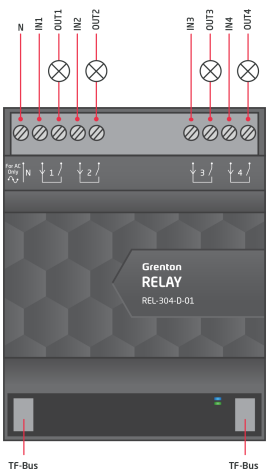
REL-304-D-01

The Grenton Relay 4HP (High Power) module enables switching of 4 different high power devices (e.g. light, electric heating, electrical sockets). The module is equipped with the energy consumption measurement bridge to allow power measurement of the connected device / receiver.

1. Technical Data

Device power supply	$24V_{dc}$
Maximum power consumption	1,7W
Maximum device current	70mA (for $24V_{dc}$)
Rated load voltage	$230V_{ac}$ or $24V_{dc}$
Maximum load current per channel:	
AC1	16A / $250V_{ac}$
AC15 (e.g., electromagnet)	1,5A / $240V_{ac}$
DC1	16A / $24V_{dc}$
DC13 (e.g., electromagnet)	0,22A / $120V_{dc}$
Maximum load power per channel:	
AC3 (single-phase motor)	750W / $240V_{ac}$
Minimum breaking capacity	1W
Maximum output current inrush per channel (20ms)	80A
Relay type	NO, inrush
Max. wire cross section	$2,5mm^2$
Weight	169g
Size [DIN]	4
Fixing	Electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	90/72/58mm
Operating temperature range	0 to +45°C

2. Wiring Diagram



N	'Neutral' signal (for AC only)
IN1	first channel input
OUT1	first channel output
IN2	second channel input
OUT2	second channel output
IN3	third channel output
OUT3	third channel output
IN4	fourth channel output
OUT4	fourth channel output

● 'N' signal is necessary only for $230V_{ac}$ loads for switch condition optimization.

3. Device Status

	Off - no power supply
	On continuously for 2s - module startup
	On continuously - module in bootloader mode
	Short flash every 2s - correct module operation
	Short flash every 1s - no address (run CLU Discovery)
	Fast flashing every 100ms - no TF-bus connection
	Two short flashes every 2s - voltage too low
	Short flash - change of module input or output state

4. Warnings and Cautionary Statements

ATTENTION !

● Before proceeding with the assembly, read the installation schematics and full instructions available at www.grenton.com. Failure to follow the guidelines contained in the instructions and other requirements of due care valid as a result of the nature of the equipment (device) may be dangerous to life / health, damage the device or installation to which it is connected, damage other property or violate other applicable regulations. The manufacturer of the device, Grenton Sp. z o. o. does not bear any responsibility for the damage (property and non-property related) resulting from the assembly and / or use of the equipment not in accordance with the instructions and / or due diligence in handling the equipment (device).

● Device power supply, permissible load or other characteristic parameters have to be in accordance with the device specification, described in particular in the "Technical data" section.

● The product is not intended for children and animals.

● If you have technical questions or comments about the device operation, contact Grenton Technical Support.

● Answers to frequently asked questions can be found at: www.support.grenton.com.

DANGER !

● Danger to life caused by electric current!

● The components of the installation (individual devices) are designed to work in a home electrical installation or directly in its vicinity. Incorrect connection or use may cause a fire or electric shock.

● All work related to the installation of the device, in particular works involving interference in the electrical installation, may be performed only by a person with appropriate qualifications or licences.

● When installing the device, make sure that the power supply voltage is disconnected from the circuit in which the device is connected or near which the assembly takes place.

5. CE Marking

The manufacturer declares that the device is in full compliance with the requirements of EU legislation that includes the directives of a new approach appropriate for this equipment. In particular, Grenton Sp. z o. o. declares that the device fulfills the requirements on safety, specified by law, and that it conforms to the national regulations that implement the appropriate directives: The Directive on the electromagnetic compatibility (EMC - 2014/30/UE) and the Directive on the limitation of the use of specific substances in electrical and electronic equipment (RoHS II - 2011/65/UE).

6. Warranty

Warranty available at www.grenton.com/warranty.

7. Manufacturer Contact Details

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