User manual I/O Module INO-288-D-01

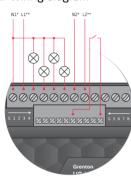
Grenton I/O Module allows you to control up to 8 outputs (max.360VA) and 8 digital inputs.



1. Technical data

Device power supply	24 V _{dc}
Maximum power consumption	1,8 W (200 mW/ch)
Maximum device current	75 mA (for 24V _{dc})
Rated load voltage	230 V _{ac} or 24 V _{dc}
Rated circuit load (4 channels) AC1:	6 A / 230 Vac
Rated load current per channel:	
AC1	1,5 A / 230 Vac
AC15	0,4 A / 230 Vac
DC1	1,5 A / 24 V _{dc}
DC13	0,22 A / 24 V _{dc}
Maximum breaking capacity AC1	360 VA
Relay type	NO, inrush
Maximum wire cross section for outputs	2,5mm ²
Maximum wire cross section for inputs	1,5mm ²
Weight	170 g
Size [DIN]	4
Fixing	electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	58/71/90 mm
Operating temperature range	0 to +45 °C

2. Wiring diagram





G	ground signal for digital inputs
1-4	digital inputs 1-4
G	ground signal for digital inputs
5-8	digital inputs 5-8
N1*	'Neutral' signal for first circuit
L1**	'Line' signal for first circuit
01	first channel in circuit 1
02	second channel in circuit 1
03	third channel in circuit 1
04	fourth channel in circuit 1
N2*	'Neutral' signal for second circuit
L2**	'Line' signal for second circuit
05	fifth channel in circuit 2
06	sixth channel in circuit 2
07	seventh channel in circuit 2
08	eight channel in circuit 2

- Relay outputs: Outputs are divided into two independent circuits. Each circuit has own 'N', 'L' and 4 outputs
- cuts. Each circuit as own N , L and 4 outputs (channels).

 N 'I' L' signals are necessary for 230 Vac loads for switch condition optimization.

 For loads up to 24 V_{dc} switthing signal has to be connected to 'L'. 'N' is not necessary in this

- case.

 L'signal supply 4 channels in each circuit.

 For capacitive loads it is recommended to use one receiver for one output.

 For capacitive loads it is recommended to set a minimum 1500ms time interval between successive switches of the same output.

3. Warnings and cautionary statements



Before proceeding with the assembly, read the installation schematics and full instructions available at wavw.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.

- tion.

 The product is not intended for children and
- In product as not 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.pl



Danger to life caused by electric currentl
 The components of the installation (individual devices) are designed to work in a home

- electrical installation or directly in its vicinity. In-correct connection or use may cause a fire or electric shock.

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

 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.

4. 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. Low Voltage Directive (LVD 2014/35/LVB) and the Directive on the limitation of the use of the device fulfills the requirements on safety, specified by law, and that it conforms to the na-



5. Warranty

Warranty available at: www.grenton.com/warranty

6. Manufacturer contact details

Grenton Sp. z o.o.

ul. Na Wierzchowinach 3

30-222 Kraków, Polska (PL)

www.grenton.com