

# User manual Dimmer Mosfet

DIM-211-D-01

Universal dimmer module for DIN rail assembly enables smooth control of the light intensity level.

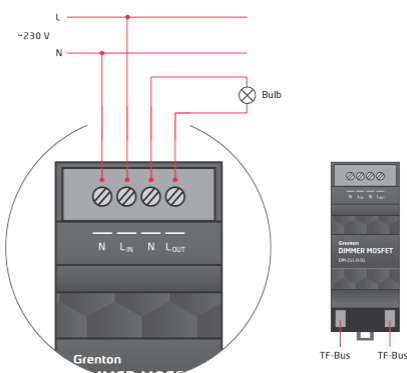


## 1. Technical data

Device power supply	24V <sub>dc</sub>
Maximum power consumption	1,6W
Maximum device current	67mA (for 24V <sub>dc</sub> )
Maximum load current	1,1A
Maximum impulse load current RMS(20ms)	1,5A
Maximum resistive load	250VA
Rated load voltage	230V <sub>ac</sub>
Maximum load voltage	277V <sub>ac</sub>
Switch type	2x MOSFET transistor
Dimming mode	Trailing Edge
Max. wire cross section	2,5mm <sup>2</sup>
Weight	85g
Size [DIN]	2
Fixing	electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	90/36/58mm
Operating temperature range	0 to +45°C

- For load types other than resistive, the maximum load has to be at least two times lower than for resistive load.
- It is highly recommended to verify if the dimmer device works properly with the load in the target system, every time before installation.

## 2. Wiring diagram



N	'N' input signal
L <sub>in</sub>	'L' input signal
N	'N' output signal
L <sub>out</sub>	'L' output signal

## 3. Warnings and Cautionary Statements



### ATTENTION I

- Before proceeding with the assembly, read the installation schematics and full instructions available at [www.grenton.com](http://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](http://www.support.grenton.com).



### DANGER I

- 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.

## 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. 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 na-

tional 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).



## 5. Warranty

Warranty available at [www.grenton.com/warranty](http://www.grenton.com/warranty).

## 6. Manufacturer Contact Details

Grenton Sp. z o.o.  
ul. Na Wierzchowinach 3  
30-222 Kraków, Poland  
[www.grenton.com](http://www.grenton.com)  
[grenton@grenton.com](mailto:grenton@grenton.com)