

Datasheet Dimmer Mosfet DIM-211-D-01

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



1. Parameters - DIMM

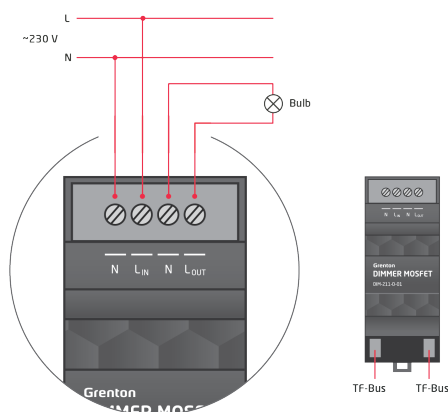
| Characteristics: | |
|-----------------------|--|
| Value | Specifies the current output value |
| RampTime | Delay value when changing illumination (in ms) |
| MinValue | Minimum value which Value can adopt. Attempting to set a lower value will generate an error |
| MaxValue | Maximum value which Value can adopt. Attempting to set a higher value will generate an error |
| StartLevel | Specifies the threshold of the output |
| DimmingEdge | Dimming type |
| DistributedLogicGroup | Distributed Logic group - broadcast group for distributed logic |
| StatisticState | Load measurement type: Off - turned off, Continuous - load measurement for the whole device's period operation |
| Load | The measured value multiplier. For StatisticState: Continuous - load measurement in the unit of time |
| Methods: | |
| SetValue | Sets output value |
| SetRampTime | Determinates the time of output value increment (in ms) |
| SetMinValue | Setting the minimum value which can be adopted by an output. Attempting to set a lower value will generate an error. Range: 0 - 1 |
| SetMaxValue | Setting the maximum value which can be adopted by an output. Attempting to set a higher value will generate an error. Range: 0 - 1 |
| StartLevel | Sets the threshold of the output |
| SetDimmingEdge | Sets the Dimming type |
| Switch | Changes the output value from 0 to 1 or from 1 to 0. The first parameter is the time of change: 0 - switches output to continuous mode number - switches output for a specified time by a parameter (in milliseconds). The second parameter is the ramp (time of value increments which is optional. If this parameter is not specified, the default ramp is used) |
| SwitchOn | Sets output value to 1. The first parameter is the time of switching (how long it is to be switched for). The second parameter is the ramp (time of value increments) which is optional |
| SwitchOff | Sets output value to 0. The first parameter is the time of switching (how long it is to be switched for). The second parameter is the ramp (time of value increments) which is optional |
| HoldValue | Executes the function of illuminating/ dimming |
| Events: | |
| OnValueChange | Event resulting from changing the output state |
| OnSwitchOn | Event occurring when the output value is changed from 0 to a higher value than 0 |
| OnSwitchOff | Event occurring when 0 is set at the output |
| OnValueRise | Event occurring when the set value is higher than the current value |
| OnValueLower | Event occurring when the set value is lower than the current value |
| OnOutOfRange | Event occurring when setting a value which is higher than the maximum value or lower than the minimum value |

2. Technical data

| | |
|--|---|
| Device power supply | 24 V _{dc} |
| Maximal power consumption | 1.6 W |
| Maximal device current | 67 mA (for 24 V _{dc}) |
| Maximal load current | 1.1 A |
| Maximal impulse load current RMS(20ms) | 1.5 A |
| Maximal resistive load | 250 VA |
| Rated load voltage | 230 Vac |
| Maximal load voltage | 277 Vac |
| Switch type | 2x MOSFET transistor |
| Max. wire cross section | 2,5mm ² |
| Weight | 85 g |
| Size (DIN) | 2 |
| Fixing | electrical box, rail DIN-37/TH 35/TS 35 |
| Dimensions (H/W/D) | 58/36/90 mm |
| 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.

3. Wiring diagram



| | |
|------|------------------|
| N | N' input signal |
| Lin | L' input signal |
| N | N' output signal |
| Lout | L' output signal |

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.pl



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 licenses.
- 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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