# GRENTON DIMMER

DIM-021-T-01

## UNIVERSAL DIMMER MODULE FOR DIN RAIL ASSEMBLY

N L O1 O2

**DIMMER**
1 channel

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

- fully configurable
- enables the following functions: dimming, continuous activation, and specific-time activation
- controlled increment time
- enables you to connect a lighting circuit with a total output of 690 W
- enables you to define the maximum and minimum values for the lighting circuit

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v. 1.1

# CONFIGURATION PARAMETERS

## CHARACTERISTICS

| Name | Description |
| --- | --- |
| Value | Specifies the current output value (0.0 - 1.0) |
| 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. Range 0.0 - 1.0 |
| MaxValue | Maximum value which "Value" can adopt. Attempting to set a higher value will generate an error. Range 0.0 - 1.0 |
| StatisticState | Measurement type. Off - turned off; Continuous - Load measurement throughout the machine cycle/Load measurement over the entire life cycle of the device |
| Load | Multiplier of measured value. For StatisticState: Continous - consumption value per unit time |

## METHODS

| Name | Description |
| --- | --- |
| SetValue | Sets output value (0.0 - 1.0) |
| SetRampTime | Determines the time of output value increment (ms) |
| SetMinValue | Setting the minimum value which can be adopted by an output. Attempting to set a lower value will generate an error. Range: 0.0 - 1.0 |
| SetMaxValue | Setting the maximum value which can be adopted by an output. Attempting to set a higher value will generate an error. Range: 0.0 - 1.0 |
| Hold | Executes the function of illuminating/dimming |
| Switch | Changes the output value from 0 to 1 or from 1 to 0.<br>The first parameter is the time of change:<br>- 0 – switches output to continuous mode<br>- num – switches output for a time specified by a parameter (in milliseconds)<br>The second parameter is the ramp (time of value increments which is optional.<br>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 0.0. 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. |

## EVENTS

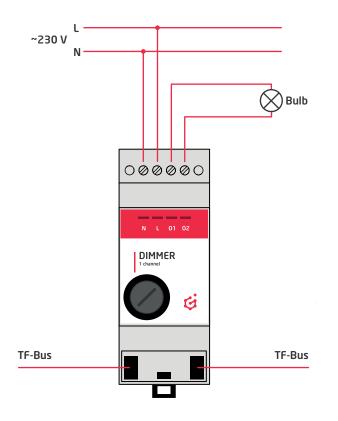| Name | Description |
| --- | --- |
| OnChange | Event resulting from changing the output state |
| OnLowerValue | Event occurring when the set value is lower than the current value |
| OnRaiseValue | Event occurring when the set value is higher than the current value |
| OnOutOfRange | Event occurring when setting a value which is higher than the MaxValue or lower than the MinValue |
| OnSwitchOn | Event occurring when the output value is changed from 0 to a value higher than 0 |
| OnSwitchOff | Event occurring when 0 is set at the output |

# TECHNICAL SPECIFICATIONS

| | |
|---|---|
| DC supply | 5 V |
| max. current input | 8.39 mA |
| weight | 104 g |
| dimensions (H/W/D) | 58/36/90 mm |
| max. connection wire section | ≤ 2.5 mm$^2$ |
| size [DIN] | 2 |
| operating temperature range | 0 to +40°C |
| maximum load | 690 W |

# WIRING DIAGRAM

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