Grenton

GRENTON DIMMER

DIM-031-T-01

UNIVERSAL DIMMER MODULE FOR DIN RAIL ASSEMBLY

Enables smooth control of the light intensity level.

- allows you to connect a lighting circuit with an output of 1x 350 W or 2x 250 W
- small size - fits into a P60 box under the ancillary equipment
- enables the following functions: dimming,continuous activation, and specific-time activation
- controlled increment time
- enables you to define the maximum and minimum values for the lighting circuit

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.
MaxValue	Maximum value which Value can adopt. Attempting to set a higher value will generate an error
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. The first parameter is the time of change: - 0 – switches output to continuous mode - num – switches output for a time specified 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.

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	30 g
dimensions (H/W/D)	52/57/21 mm
max. connection wire section	≤ 1.5 mm^2
operating temperature range	0 to +40°C
maximum load	1x 350 W or 2x 250 W

WIRING DIAGRAM