GRENTON LED RGB

RGB-028-T-01

LED RGB LIGHTING CONTROL MODULE FOR DIN RAIL ASSEMBLY

B G R COM IN GND

LED RGB
Controller

Grenton
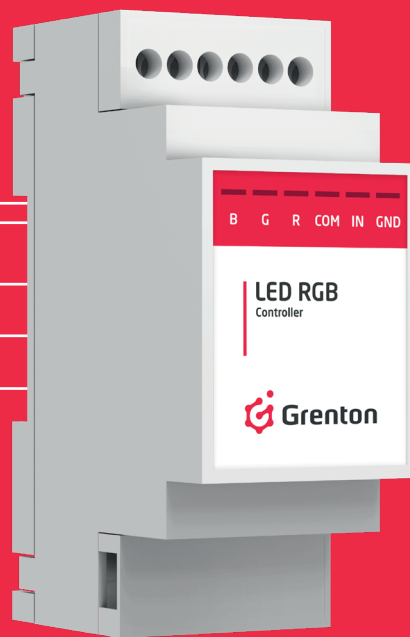
Enables smooth and full control of decorative lighting using LED RGB technology.

- dimming function – allows it to operateas a three-channel dimmer
- full freedom when setting the color: RGB or HSV model
- 16.8 million colors
- enables you to adjust both the saturation and hue
- smooth transition when changing color, saturation, and intensity
- enables you to set the ramp (transition time) for transitions between colors, saturation, and intensity of light

CONFIGURATION PARAMETERS

CHARACTERISTICS

Name	Description
Value	Brightness value (range: 0 - 1)
Hue	Color hue value as per the HSV model (0 - 360)
Saturation	Color saturation value (0 - 1)
Rvalue	R component value (0 - 255) – Red
Gvalue	G component value (0 - 255) – Green
Bvalue	B component value (0 - 255) – Blue
#RGB	Color value as per the RGB model "#RRGGBB" (specified in HEX)
RampTime	Time value of increment of color and brightness (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.
Rcorrection	White correction – channel R (0 - 10,000), default 10,000
Gcorrection	White correction – channel G (0 - 10,000), default 8,333
Bcorrection	White correction – channel B (0 - 10,000), default 8,333

METHODS

Name	Description
SetValue	Sets output value (0 - 1)
SetHue	Sets hue value (0 - 360)
SetSaturation	Sets saturation value (0 - 1)
SetRvalue	Sets R component value (0 - 255)
SetGvalue	Sets G component value (0 - 255)
SetBvalue	Sets B component value (0 - 255)
Set#RGB	Sets RGB value using the "#RRGGBB" string
HoldValue	Executes illumination/dimming function
HoldHue	Executes smooth hue transition
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 MaxValue
SwitchOff	Sets output value to MinValue
SetRampTime	Sets value of increment of color and input (ms)
SetMax	Sets MaxValue
SetMin	Sets MinValue

www.Grenton.com

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EVENTS

Name	Description
OnChange	Event occurring when changing the output state
OnSwitchOn	Event occurring when the output state is changed from = 0 to >0
OnSwitchOff	Event occurring when "0" is set at the output
OnRaiseValueSet	Event occurring when the set value is higher than the current value
OnLowerValueSet	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

TECHNICAL SPECIFICATIONS

DC supply	5 V
max. current input	8.39 mA
weight	90 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	16 A - total for all channels

WIRING DIAGRAM

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