LED RGB lighting control module for DIN rail assembly enables smooth and full control of decorative lighting using LED RGBW technology



1. Parameters - LEDRGB

Characteristics:		
Value	Brightness value as per the HSV model (range: 0.00-1.00)	
Hue	Colour hue value as per the HSV model (0-360)	
Saturation	Colour saturation value as per the HSV model (0.00-1.00)	
RedValue	R component value (0-255) - Red	
GreenValue	G component value (0-255) - Green	
BlueValue	B component value (0-255) - Blue	
WhiteValue	W component value (0-255) - White	
RGB	Colour value as per the RGB model#RRGGBB (specified in HEX)	
RampTime	Time value ofincrement of colour and brightness (in ms)	
MaxValue	Maximum value which Value can adopt. Attempting to set a higher value will generate a	
	error	
MinValue	Minimum value which Value can adopt. Attempting to set a lower value will generate an erro	
RedCorrection	White correction - channel R (0-100), default 100%	
GreenCorrection	White correction - G channel (0-100%), default 100%	
BlueCorrection	White correction - B channel (0-100%), default 100%	
StatisticState	Load measurement type: Off - turned off,Continuous - load measurement for the whole de	
oranoricorate	vice's period operation	
Load	The measured value multiplier. For StatisticState: Continuous - load measurement value i	
LUdu	the unit of time	
Methods:		
SetValue	Sate autoritisalisa (0.00 1.00)	
SetValue SetHue	Sets output value (0.00-1.00)	
	Sets hue value (0-360)	
SetSaturation	Sets saturation value (0.00-1.00)	
SetRedValue	Sets R component value (0-255)	
SetGreenValue	Sets G component value (0-255)	
SetBlueValue	Sets B component value (0-255)	
SetWhiteValue	Sets W channel value (0-255)	
SetRGBvalue	Sets RGB value using the #RRGGBB string	
HoldValue	Executes illumination/ dimming function	
HoldHue	Executes smooth hue transition	
SwitchOn	Sets output value to MaxValue	
SwitchOff SwitchOff	Turns off all of the channels	
	Changes the output value from 0 to 1 or from 1 to 0. The first parameter is the time of	
Switch	change: 0 - switches output to continuous mode, number - switches output for a time spec	
	ified by a parameter (in milliseconds) The second parameter is the ramp (time of value incre ments) which is optional. If this parameter is not specified, the default ramp is used	
SetRampTime	Sets value ofincrement of colour and input (in ms)	
SetMaxValue	Sets maximum value for Value	
SetMinValue SetMinValue	Sets minimum value for Value	
HoldRedValue	Executes illumination/ dimming function for R channel	
HoldGreenValue	Executes illumination/ dimming function for G channel	
HoldBlueValue	Executes illumination/ dimining function for G channel	
HoldWhiteValue	Executes illumination/ dimining function for W channel	
noiowrine value	executes manimations animining randition for a charmer	
Events:		
OnChange	Event occurring when changing the output state	
OnSwitchOn	Event occurring when the output state is changed from 0 to greater 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 tha	
	the minimum value	

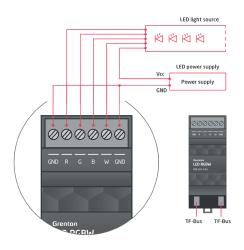
2. Parameters - PowerSupplyVoltage

Characteristics: Value	Current output value taking into account the scalar	
Value %	Current percentage input value of the maximum value (MaxValue characteristic)	
Sensitivity	Minimum change ofinput state when the OnValueChange, OnValueLower or OnValueRise event is generated	
MinValue	Minimum value of the Value characteristic after exceeding which the OnOutOfRange event is generated	
MaxValue	Maximum value of the Value characteristic after exceeding which the OnOutOfRange event is generated	
Methods:		
SetSensitivity	Sets input sensitivity value	
SetMinValue	Sets MinValue	
SetMaxValue	Sets MaxValue	
Events:		
OnValueChange	Event resulting from changing input state	
OnValueLower	Event occurs when a value lower than the value from the last reading appears at input	
OnValueRise	Event occurs when a value higher than the value from the last reading appears at input	
OnOutOfRange	Event resulting from exceeding the permissible range (MinValue : MaxValue)	
OnInRange	Event occurs when value returns to MinValue/MaxValue range	

3. Technical data

Device power supply	24 V _{dc}
Maximum power consumption	0,48 W
Maximum device current	20 mA (for 24 V _{dc})
LED power supply (Vcc)	up to 24 V _{dr}
Maximum load current RGBW	20 A (total for all channels)
Maximum channel load current	16 A
Maximum wire cross section	2,5 mm ²
PWM output frequency	1 kHz
Weight	64 g
Size [DIN]	2
Fixing	electrical box, rail DIN-3 / TH 35 / TS 35
Dimensions (H/W/D)	58/36/90 mm
Operating temperature range	0 to +45 °C

4. Wiring diagram



Vcc	LED power supply signal
GND	power supply ground signal
R	output 'RED'
G	output 'GREEN'
В	output 'BLUE'
W	output WHITE'
GND	power supply ground signal

5. Warnings and cautionary statements



 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. 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 Cirenton Technical Support.

Answers to frequently asked questions can be found at: www.support.grenton.pl



- 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

- 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 li-
- cences.

 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.

6. 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. 2 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).



7. Warranty

Warranty available at: www.grenton.com/warranty

8. Manufacturer contact details

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