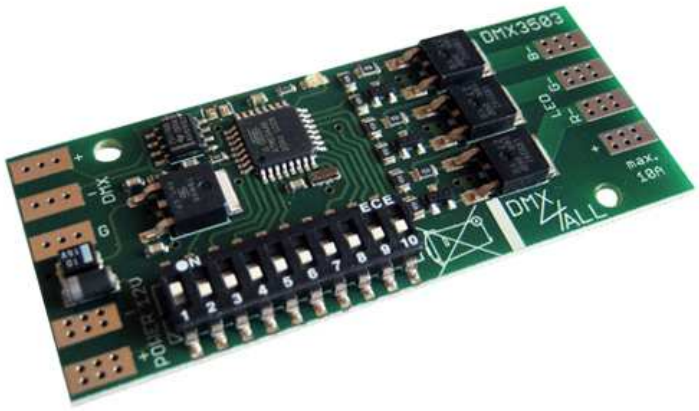
DMX-LED-DIMMER

MaxiRGB

User Manual



DMX4ALL®

For your own safety, please read this user manual and warnings carefully before installation.

Soldering work may only be carried out by a certified specialist in order to prevent damage to the product and injury to people.
If acidic or leaded solder, soldering grease or acidic flux etc. has been used for soldering and/or if the board has been improperly soldered, all warranty claims will be voided and no repair will be carried out.

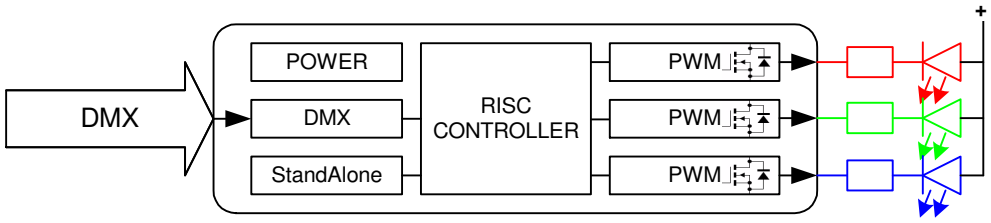
Description

The **DMX-LED-Dimmer MaxiRGB** is specially designed for driving RGB LED-Strips with 12V or 24V.

The 3 separate LED-Outputs that are independently controllable via DMX can be used for RGB or separate single color LED stripes.

Alternatively, internal color gradients can be called without external control.

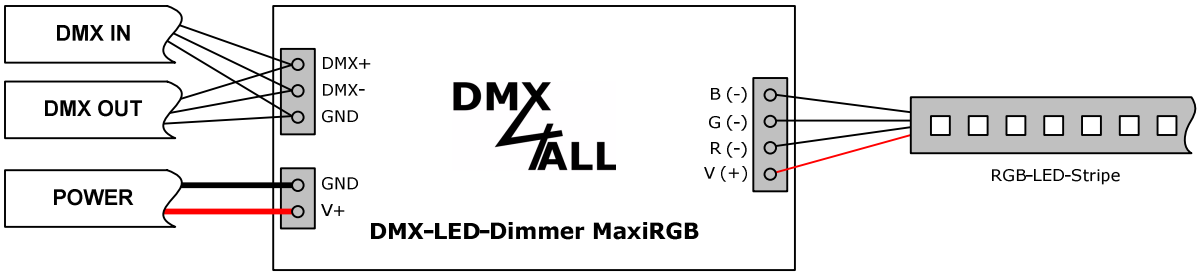
The operating voltage of the DMX-LED-Dimmer MaxiRGB is also the operating voltage of the LED-Stripes.

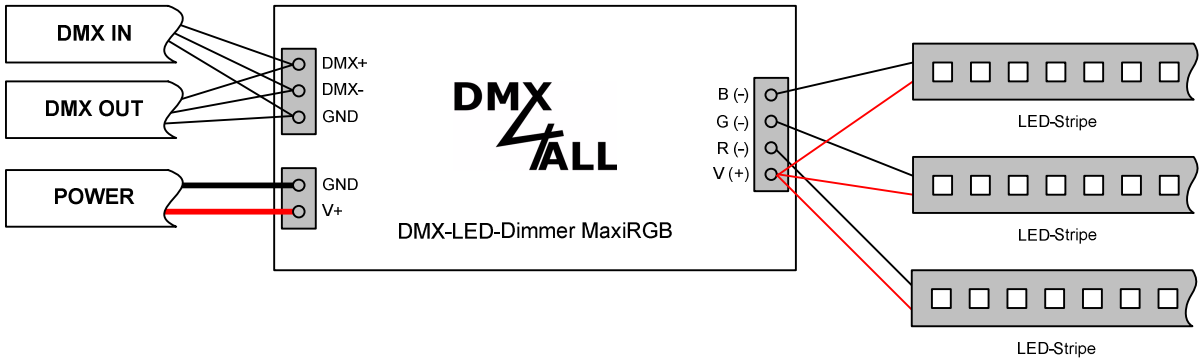


Technical Data

Power supply:	12-24 DC / 50mA no load The supply voltage must correspond to the voltage for the LED stripe!
LED-Voltage:	12-24V DC (no AC voltage !)
DMX Input:	DMX512 / 3 channels
LED Output:	3x (R/G/B) max. 10A each together max. 10A with common anode (+) common power supply
PWM Resolution:	256 steps (8-Bit), linear
PWM Frequency:	~ 240Hz
StandAlone function:	9 fix internal StandAlone-Programs
Connections:	Solder pads Screw terminals (SR-Version)
Dimensions:	70mm x 30mm

Connection


DMX IN
DMX OUT
POWER
DMX+
DMX-
GND
GND
V+
DMX-LED-Dimmer MaxiRGB
B (-)
G (-)
R (-)
V (+)
RGB-LED-Stripe


DMX IN
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POWER
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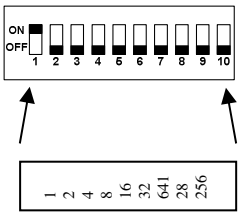
GND
GND
V+
DMX-LED-Dimmer MaxiRGB
B (-)
G (-)
R (-)
V (+)
LED-Stripe
LED-Stripe
LED-Stripe

Addressing

The DMX-Starting address is adjustable with the switches 1 to 9.

Switch 1 has the valency 2^0 (=1), switch 2 the valency 2^1 (=2) and so on … finally switch 9 has the valency 2^8 (=256). The sum of the switches which are moved to ON position represents the starting address.

Switch 10 is reserved for the StandAlone-function and has to show OFF in the DMX operation mode.



LED-Display

The integrated LED is a multifunctional display.

This LED lights in normal operation nonstop. In this case the device is working.

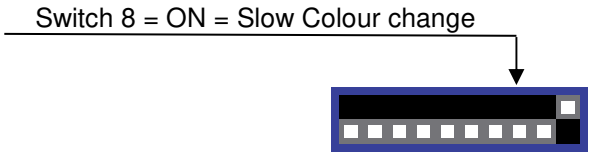
The LED signalled the operation status also. In this case the LED lights up in short pitches and then turns into off modus. The Number of flashing signals is equal to the Number of the error status:

Error Status	Error	Description
1	No DMX	There is no DMX-Signal at the Dimmer
2	Address error	Check, if a valid starting address is adjustable with the switches 1 to 9.
3	DMX-Signal error	An invalid DMX-Input signal is detected. Swap the signal lines by changing switch 2 and 3 or use a twisted pair wire.

Calling the internal colour changes

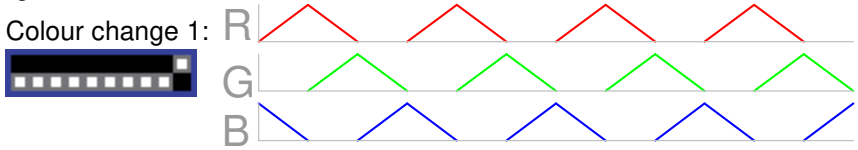
To access the internal colour change, please switch counter 10 on On.
For slow colour changes the DMX-LED-Dimmer S allocates a SLOW-mode. This will be activated, by switching counter 8 on ON.

The DMX-LED-Dimmer MaxiRGB Wireless has for slow colour changes a SLOW-Mode. This will be activated by switching the counter 8 on ON.

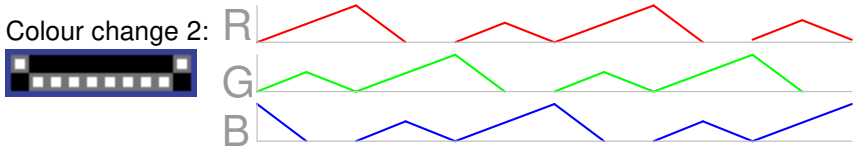


Now, you can select the colour changing programs with the switches 1, 2 and 3. The following colour changes are selectable:

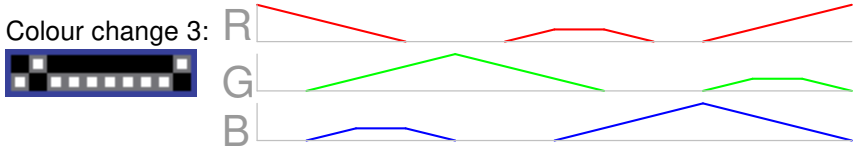
Colour change 1:



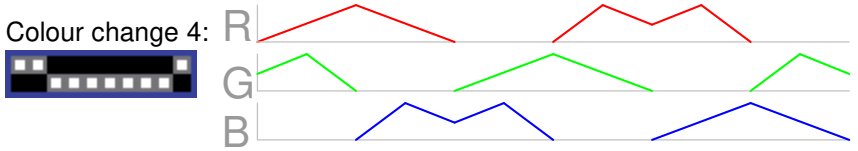
Colour change 2:



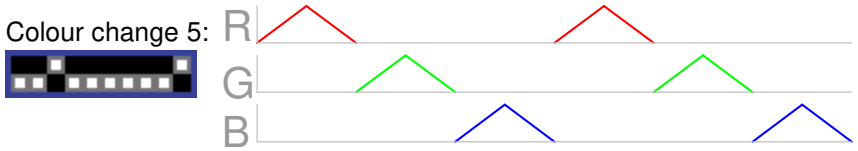
Colour change 3:



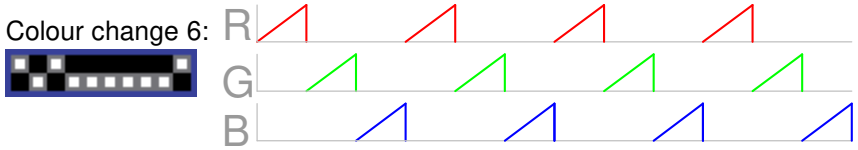
Colour change 4:



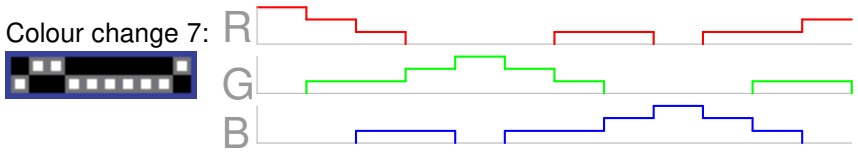
Colour change 5:



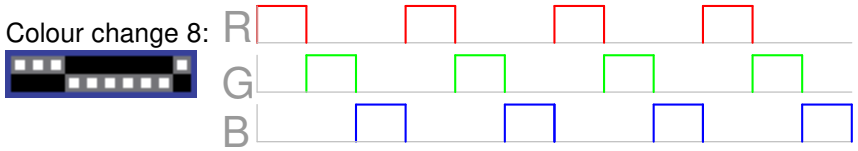
Colour change 6:



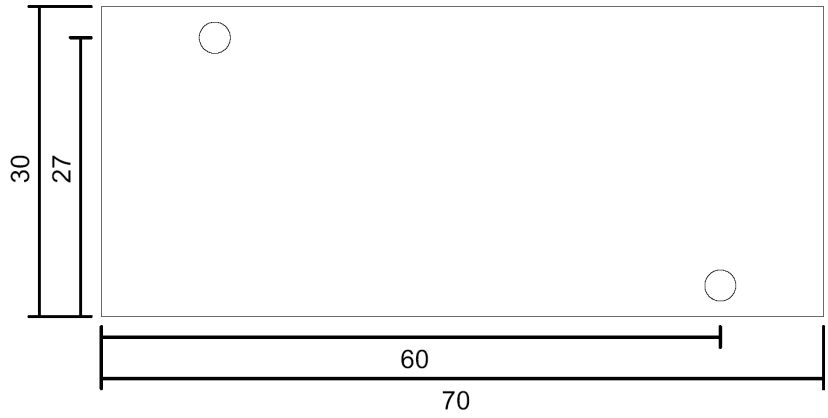
Colour change 7:



Colour change 8:



Dimensions

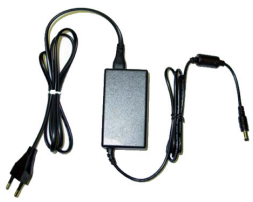


all details in mm

Accessory

RGB LED-Stripe 5m

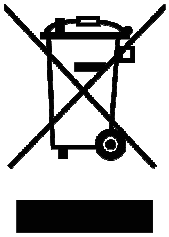
Desk top power supply 12V / 5A



CE-Conformity

This assembly is controlled by a microprocessor and uses high frequency. In order to maintain the properties of the module with regard to CE conformity, installation into a closed metal housing in accordance with the EMC directive 2014/30/EU is necessary.

Disposal



Electronical and electronic products must not be disposed in domestic waste. Dispose the product at the end of its service life in accordance with applicable legal regulations. Information on this can be obtained from your local waste disposal company.

Warning

This device is no toy. Keep out of the reach of children. Parents are liable for consequential damages caused by nonobservance for their children.

Risk-Notes

You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk:
The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk:
For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk:
The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk:
Any nonstandard use could cause incalculable risks and is not allowed.

Warning: It is not allowed to use the device in an operation, where the safety of persons depend on this device.

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Last change: 08.06.2022