



DMX4ALL MaxiRGB DMX and RDM Interface Pixel LED Controller User Manual

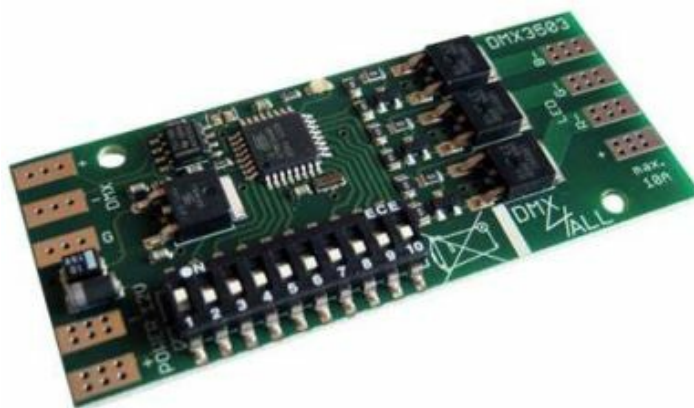
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DMX4ALL MaxiRGB DMX and RDM Interface Pixel LED Controller



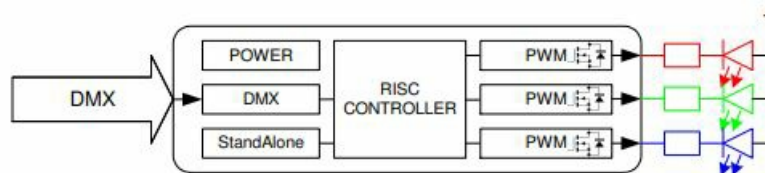
Product Information

The DMX-LED-Dimmer MaxiRGB is a device designed for driving RGB LED strips with 12V or 24V. It features 3 separate LED outputs that can be independently controlled via DMX. These outputs can be used for RGB or separate single color LED strips. Additionally, the device has internal color gradients that can be called without external control. The operating voltage of the DMX-LED-Dimmer MaxiRGB is also the operating voltage of the LED strips.

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

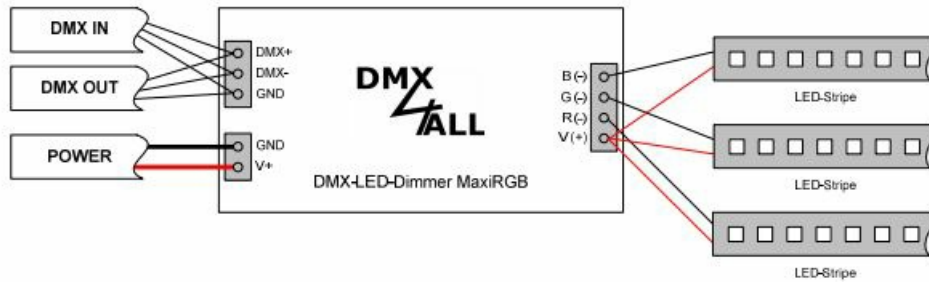
- The DMX-LED-Dimmer MaxiRGB is specially designed for driving RGB LED-Strips with 12V or 24V.
- The 3 separate LED-Outputs that are independently controllable via DMX can be used for RGB or separate single color LED stripes.
- Alternatively, internal color gradients can be called without external control.
- The operating voltage of the DMX-LED-Dimmer MaxiRGB is also the operating voltage of the LED-Stripes.



Technical Data

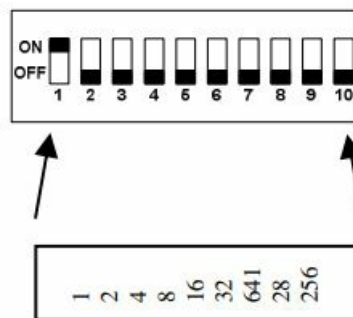
- **Power supply:** 12-24 DC / 50mA no load The supply voltage must correspond to the voltage for the LED stripe!
- **LED-Voltage:** 12-24V DC (no AC voltage !)
- **DMX Input:** DMX512 / 3 channels
- **LED Output:** 3x (R/G/B) max. 10A each together max. 10A with common anode (+) common power supply
- **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



Addressing

- The DMX-Starting address is adjustable with the switches 1 to 9.
- Switch 1 has the valency 20 (=1), switch 2 the valency 21 (=2) and so on ... finally switch 9 has the valency 28 (=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:

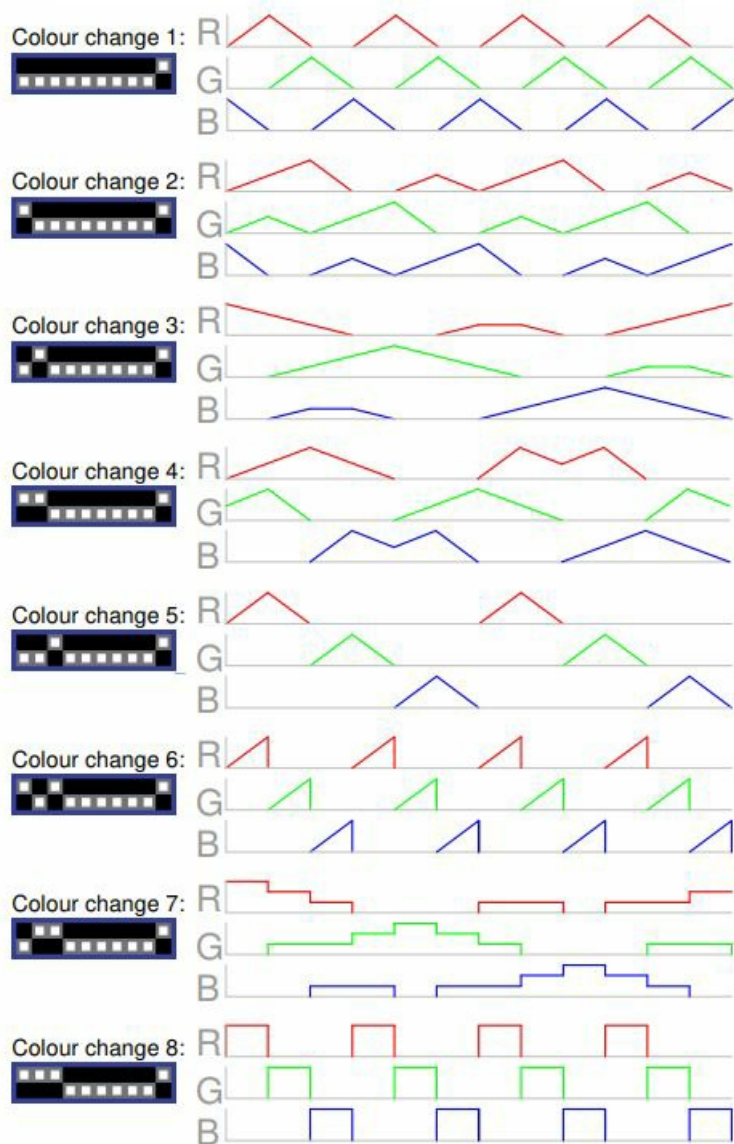
| Error Status | Error | Description |
|--------------|------------------|---|
| 1 | No DMX | There is no DMX-Signal at the Dimmer |
| 2 | Address error | Check, if a valid starting address is adjustable with the switches 1 to 9. |
| 3 | DMX-Signal error | An invalid DMX-Input signal is detected. Swap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

Calling the internal colour changes

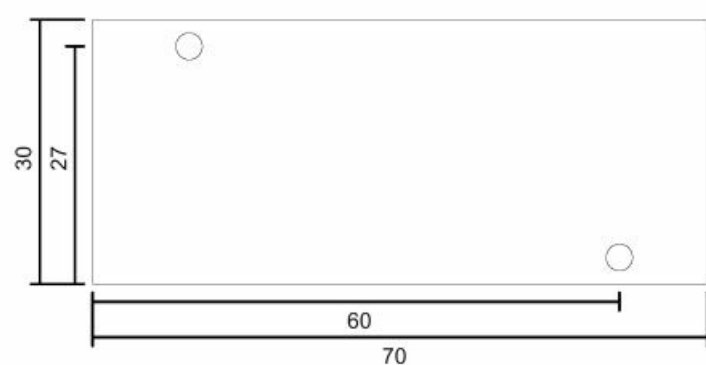
- To access the internal colour change, please switch counter 10 on On.
- For slow colour changes the DMX-LED-Dimmer S allocates a SLOW-mode. This will be activated, by switching counter 8 on ON.
- The DMX-LED-Dimmer MaxiRGB Wireless has for slow colour changes a SLOW-Mode. This will be activated by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



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 be 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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Documents / Resources

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|  | <p>DMX4ALL MaxiRGB DMX and RDM Interface Pixel LED Controller [pdf] User Manual SR, MaxiRGB, MaxiRGB DMX and RDM Interface Pixel LED Controller, DMX and RDM Interface Pixel LED Controller, RDM Interface Pixel LED Controller, Interface Pixel LED Controller, Pixel LED Controller, LED Controller, Controller</p> |
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