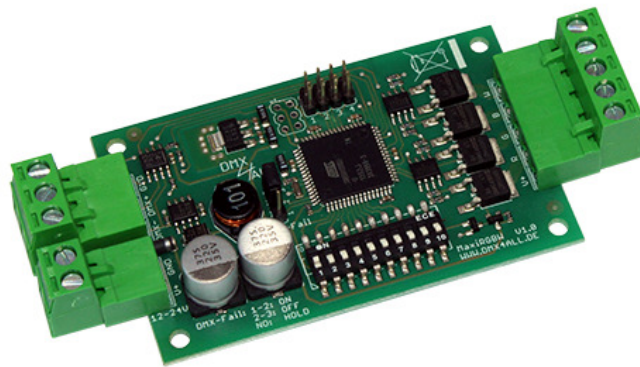


DMX-LED-DIMMER

MaxiRGBW

User Manual



DMX [®]
ALL

Description

The **DMX-LED-Dimmer MaxiRGBW** is designed for controlling RGB / RGBW / SINGLE COLORE LED-Stripes with 12V or 24 V.

It has 4 PWM-outputs which are independent controllable via DMX.

Alternatively internal color changes can be called without an external control.

Technical Data

| | |
|-----------------------------|--|
| Power supply: | 7-24V DC / 50mA without load |
| LED-Voltage: | 7-24V DC complies with the supply voltage (no AC supply !) |
| DMX-IN: | 4 channels |
| DMX-Fail: | Hold / Off / On |
| Output: | 4 PWM-signal with 16 Bit resolution Common supply voltage |
| Output current: | max. 10A per output max. 10A in sum about all outputs |
| Output power: | 120W (12V) / 240W (24V) |
| PWM-frequency: | 244 Hz / 4kHz |
| StandAlone-Function: | 9 internal StandAlone-Program |
| Dimensions: | 80 x 50,5mm |

Connection

With RGBW LED-Stripe:



With separated RGB and WHITE LED-Stripe:

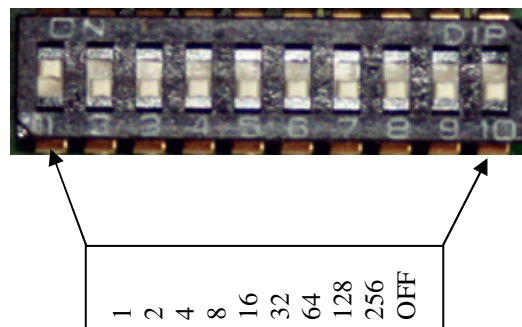


Addressing

The DMX-start address is adjustable via the switches 1 up to 9.

Thereby switch 1 has the valency 2^0 (=1), switch 2 the valency 2^1 (=2) and so on until switch 9 has the valency 2^8 (=256). The sum of the counters showing ON corresponds to the starting address.

Counter 10 is exclusive reserved for the StandAlone-Function and has to show OFF.



LED-Display

The integrated LED is a Multi-functional-display.

In the normal DMX-Mode the LED flashes non-stop. In this case the device is working. Is the LED permanently dark, there is no DMX512-signal at the entry.

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

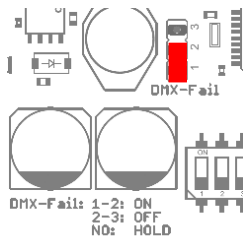
| Error Status | Error | Description |
|--------------|------------------|--|
| 1 | No DMX | There is no DMX-signal at the entrance |
| 2 | Address error | Check if a valid DMX- starting address is adjustable at the DIP-switch. |
| 3 | DMX-signal-error | An invalid DMX input signal is established, invert the signal line by changing switch 2 and 3. Or use a twisted pair wire. |

Behavior by DMX-Fail

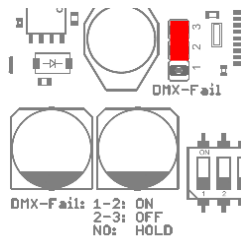
The DMX-LED-Dimmer MaxiRGBW can hold on the last value, shuts down all or starts all LED-outputs in the case of a DMX-Fail.

The behavior in the case of a DMX-Fail is adjustable about the jumper:

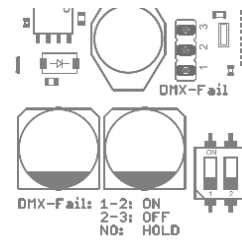
ALL ON:



ALL OFF:



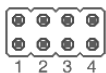
HOLD:



Mode setting

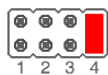
The **DMX-LED-Dimmer MaxiRGBW** has 2 operating modes adjustable with jumper 4:

Jumper 4 OFF: Controlling the outputs about one DMX-Channel



Each output will be controlled in this mode setting via one DMX-Channel.

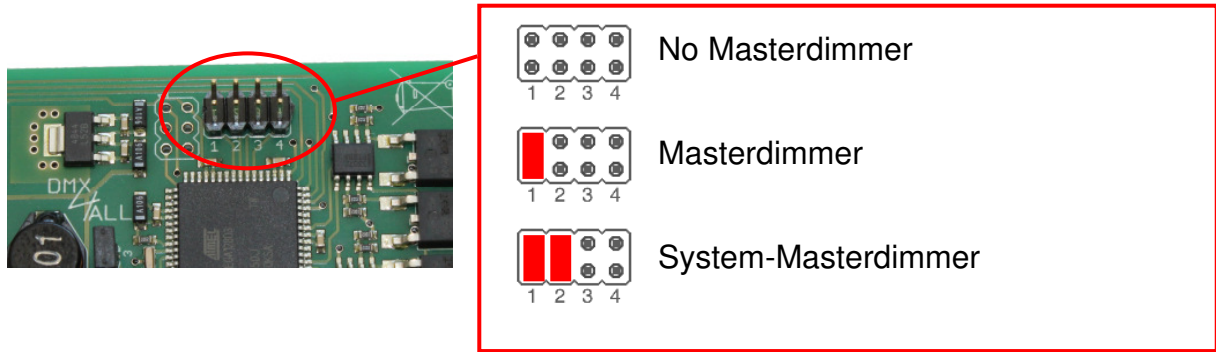
Jumper 4 ON: Controlling the outputs about 2 DMX-Channels



Each output has a resolution of 16 Bit. To address these via DMX there will be used 2 DMX-channels per output. The second DMX-Channel is the fine adjustment.

DMX-Master-Dimmer

The **DMX-LED-Dimmer MaxiRGBW** has several Masterdimmer. These will be activated via jumper 1 and 2 as follows:



Masterdimmer

The DMX-channel, which is adjusted with the start address, is used as Masterdimmer for all 4 outputs. The DMX-Address assignment is as follows:

Start address



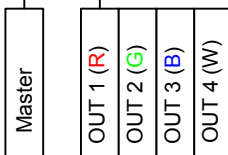
Start address



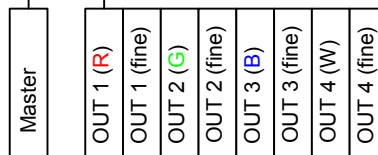
System-Masterdimmer

The Masterdimmers value is in accordance to the DMX-channel 1, which is used as Masterdimmer for all 4 outputs. The DMX-start address shows the DMX-channel where the DMX-values for the outputs start. The DMX-address assignment is as follows:

Channel 1 Start address



Channel 1 Start address

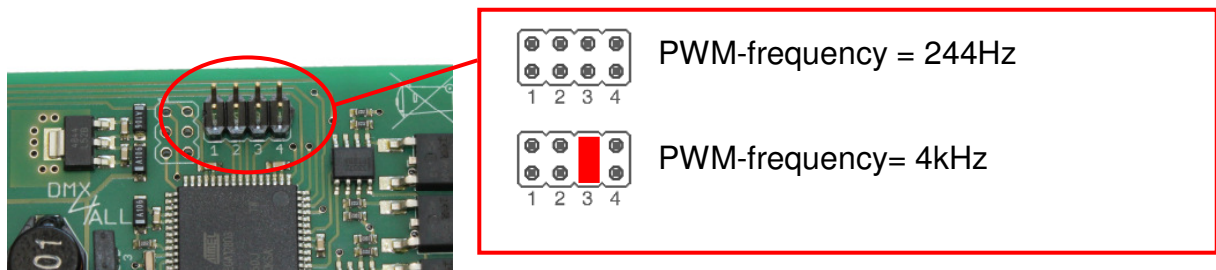


Adjust the PWM frequency

The **DMX-LED-Dimmer MaxiRGBW** has a High Frequency Mode which uses the PWM-output frequency from 4kHz.

This mode is optimized for usage in connection with video recording for example in TV-studios.

The PWM-frequency is adjustable via jumper 3:

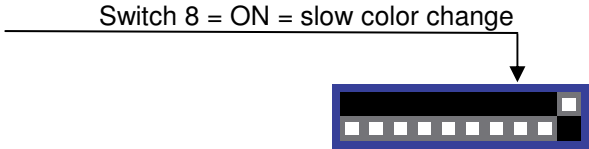


The Masterdimmer-options are combinable.

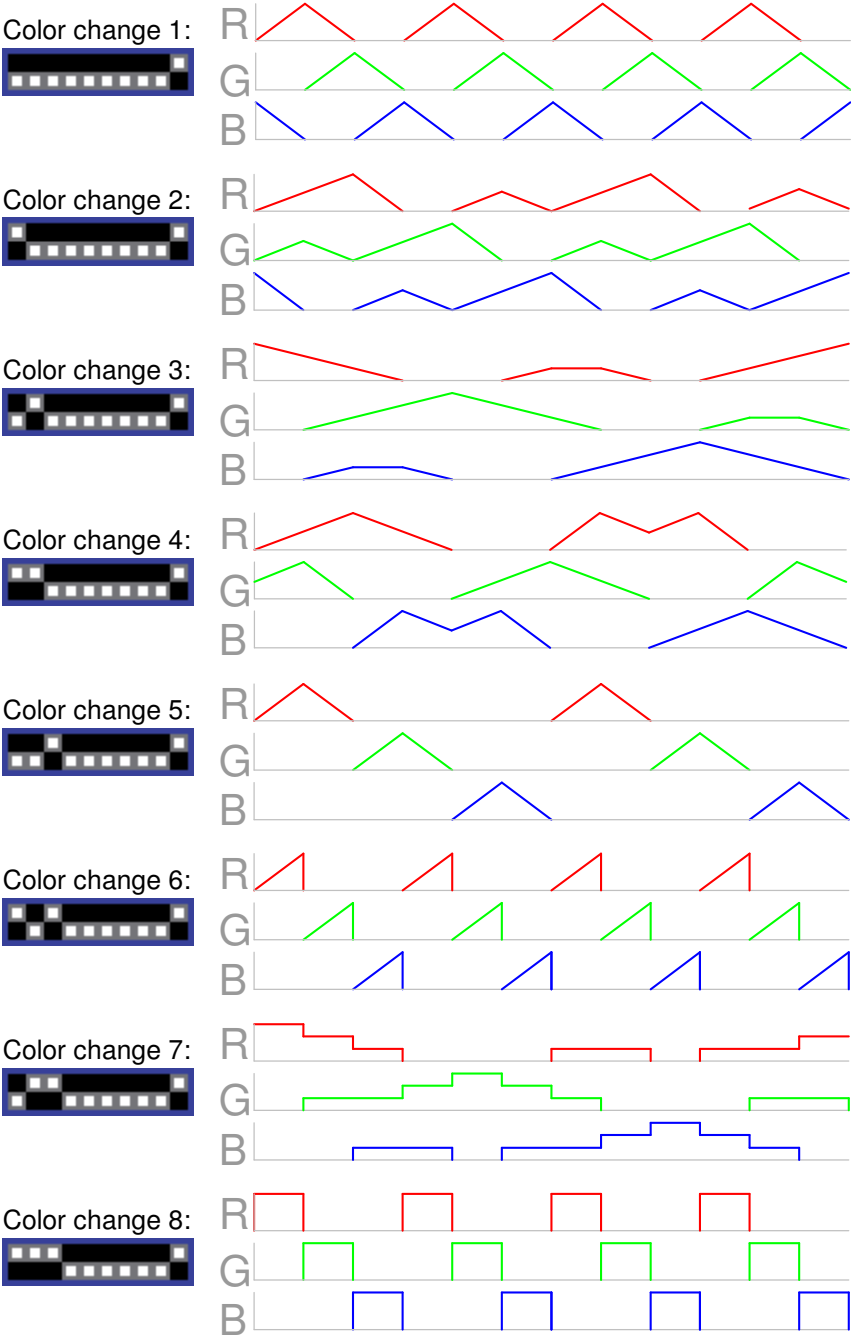
Calling the internal color changes

You can select the internal colour change by switching counter 10 on ON.

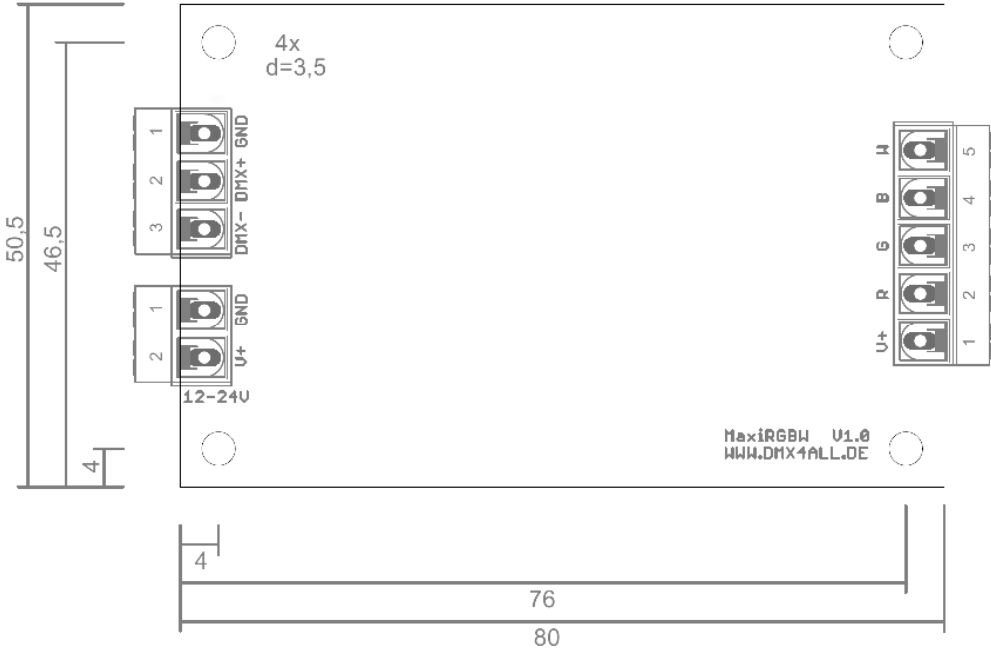
The DMX LED dimmer S makes available a SLOW-mode for slow colour changes. This will be activated by switching counter 8 on ON.



Now you can select the colour change programs via switch 1, 2 and 3. The following colour changes are selectable:



Dimensions



All details in mm

Accessories

RGB LED-Stripe 5m



Risk-Notes

You purchased a technical product. Conforming 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 depends on this device.



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