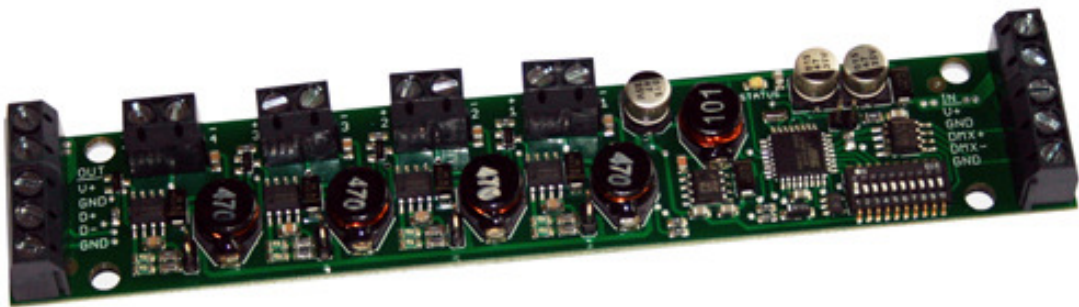


DMX-LED-DIMMER

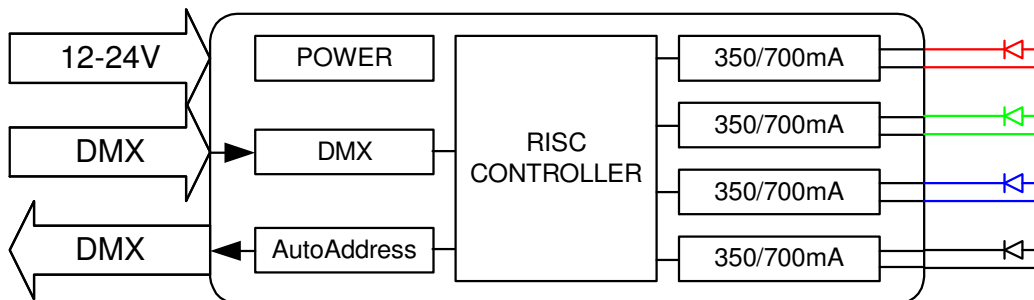
4x 350/700mA

User Manual



Description

The **DMX-LED-Dimmer 4x 350/700mA** is especially designed for controlling High Power LEDs with 350mA or 700mA. It has 4 outputs which can be controlled independently via DMX. Each output is adjustable to 350mA or 700mA.



Technical Data

Power supply:

12-24V DC / 50mA without load

DMX-IN:

4 channels without master dimmer

5 channels with master dimmer

Output:

4 current limited outputs 350/700mA (+/- 3%) with 256 brightness steps

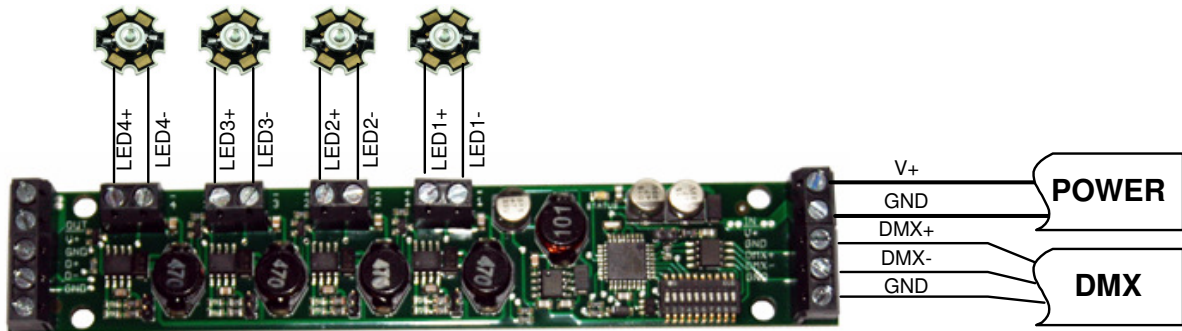
StandAlone-Function:

1 internal test program

Dimensions:

144 x 26 mm

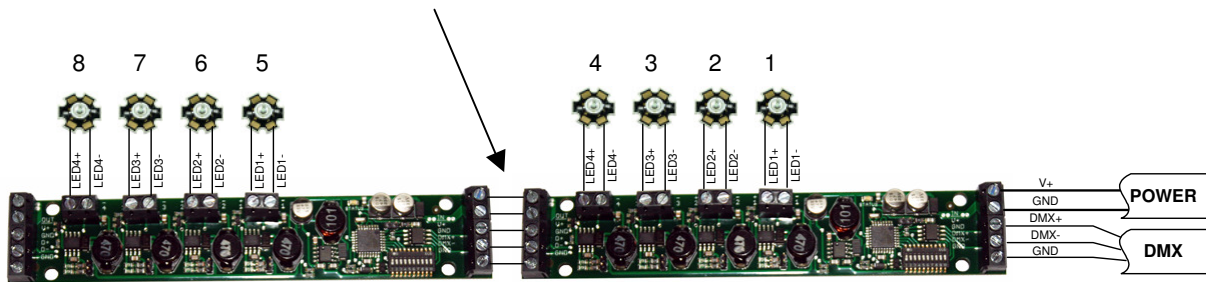
Connection




Cascading several dimmer

The **DMX-LED-Dimmer 4x 350/700mA** can be easily cascaded and expanded for a DMX-LED-Dimmer with more than 4 outputs.

For cascading the DMX-LED-Dimmer connect the clamps.



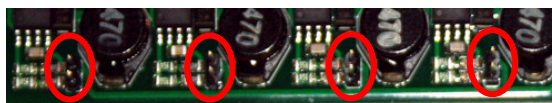
 The DMX-starting address from the cascaded DMX-LED-dimmer must show 1

DMX-starting address from the first DMX-LED-dimmer determines the starting channel

Adjusting output current

The output current can be adjusted per output to 350mA or 700mA. Each output has a jumper defining the output current:

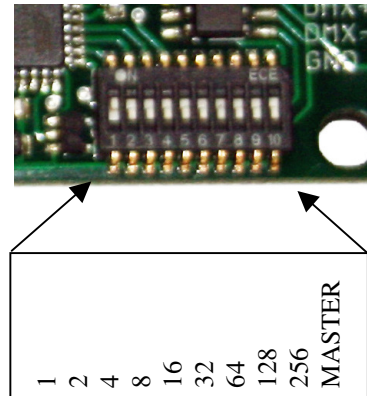
Open: 350mA
Closed: 700mA



DMX-Addressing

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

Switch 1 has the valency 2^0 (=1), switch 2 the valency 2^1 (=2) etc. until switch 9 has the valency 2^8 (=256). In total the switches showing ON correlate with the starting address.



LED-Display-Codes

The integrated LED is a multifunctional-display.

During the normal DMX-operation the LED flashes permanent. In this case the device is working. There is no DMX512-Signal if the LED is permanent dark.

Furthermore the LED shows the events. In this case the LED lights in short pitches and than turns into the off mode for a longer period. The number of flashing impulses corresponds with the event number:

Error Status	Error	Description
1	No DMX	There is no DMX-Signal reaching the dimmer
2	Address error	Check if a valid DMX starting address is adjusted at the DIP-switch
3	DMX-signal error	An invalid DMX input signal is detected, invert the signal line by changing switch 2 and 3 or use a twisted pair wire.

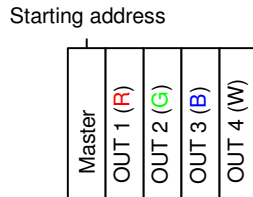


After 15 minutes operation without error status the LED expires.

Master-Dimmer

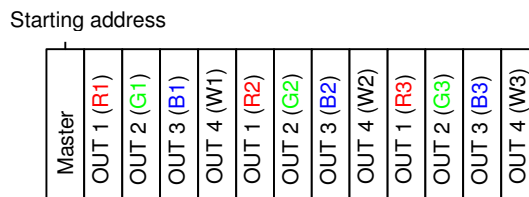
The **DMX-LED-Dimmer 4x 350/700mA** has one master dimmer for all channels. This master dimmer will be activated with switch 10.

The DMX-channel which is adjusted with the starting address will be used as master dimmer, than the DMX-channels for each outputs follows. The DMX-addresses assignment is as follows:



By cascading several **DMX-LED-Dimmer 4x 350/700mA** the master dimmer must be activated on all dimmers per switch 10. The first DMX-channel will be used as master dimmer for all outputs.

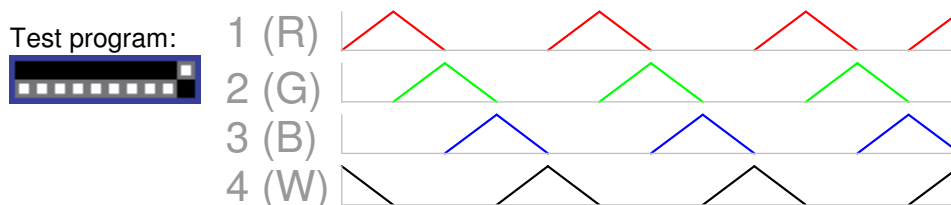
The example shows the assignment of DMX-addresses with 3 cascaded DMX-LED-dimmer:



By cascading several DMX-LED-Dimmer 4x 350/700mA the master dimmer must be activated on all dimmers per switch 10.

Calling the internal test program

To call the internal colour change test program please adjust switch 10 on ON.



CE-conformity



This assembly (board) is controlled by a microprocessor and uses high frequency (8MHz). To get the characteristics of the assembly in relation to the CE-conformity, an installation in a compact metal casing is necessary.

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.

DMX 4 ALL

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