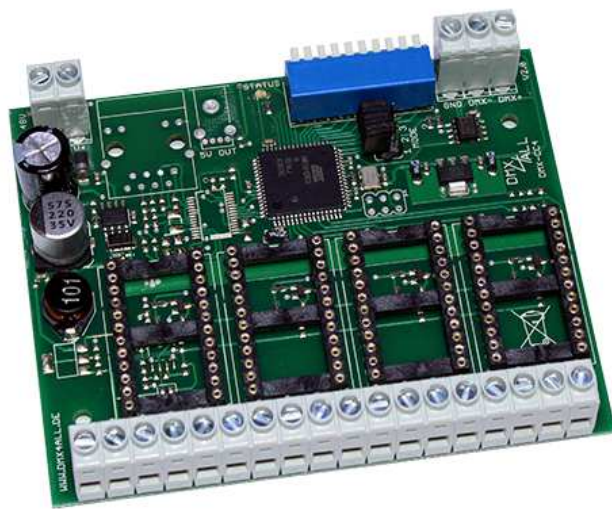


DMX-LED-Dimmer CC4

User Manual



DMX [®]
4
ALL

Description

The **DMX-LED-Dimmer CC4** is designed for controlling LEDs, which are operated with constant current and works with up to 48V DC.

The connected LEDs can be dimmed via PWM of 0% up to 100%.

A DMX-FAIL Function leaves the set value unchanged in case of a failure, switches the output OFF (0%) or ON (100%).

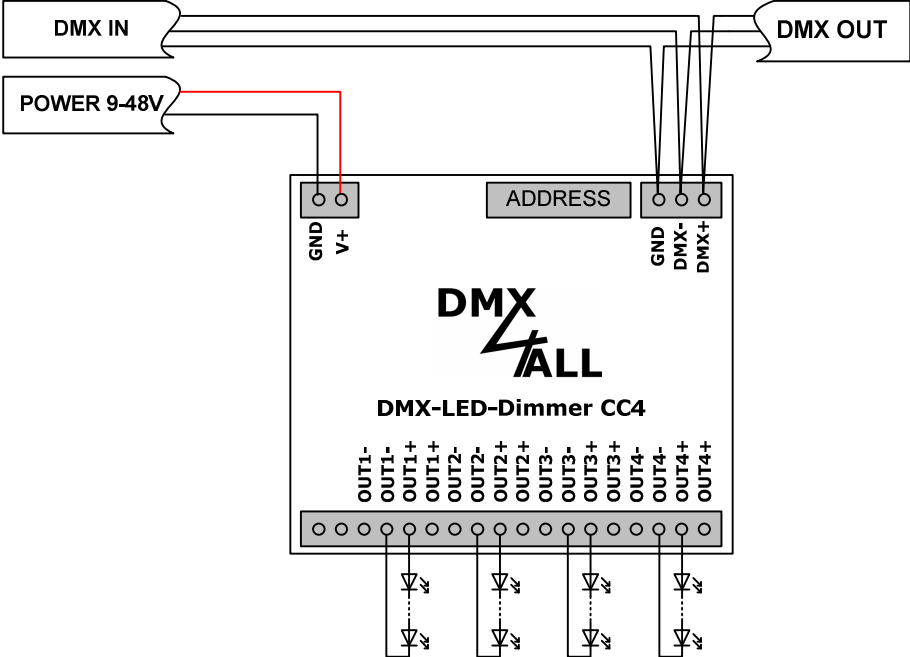
Several constant current modules are available with different output-currents to push-on. The constant current modules are available as accessory and are not included in the delivery.

Data Sheet

Power supply:	9-48V DC 22mA@12V; 12mA@24V; 7mA@48V (Current consumption without LED-Module)
DMX-Channels:	4 / 5 Channels
DMX-FAIL:	HOLD / ALL OFF / ALL ON
Master dimmer:	activatable
Output:	4 current limited dimmable LED-Outputs Output current depends on the used constant current module.
PWM-Frequency:	244 Hz
Dimensions:	99mm x 82mm

Current modules are not included in the delivery!

Connection



LED-Display-Codes

The integrated green LED is a multi function display.

During the normal operation mode the LED lights permanently. In this case the device is working.

Furthermore the LED shows the current status. In this case the LED lights up in short pitches and then are missing for longer time.

The number of the flashing lights is equal to the event number:

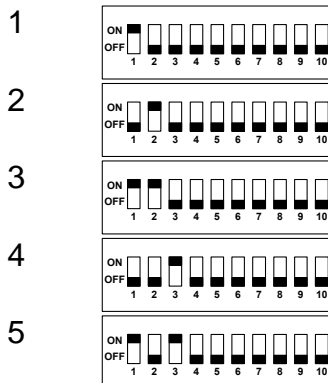
Ereignis- Nummer	Bezeichnung	Beschreibung
1	No DMX	No DMX-Signal recognized at the signal input
2	Addressing-Error	Please check the set DMX-Address

DMX-Addressing

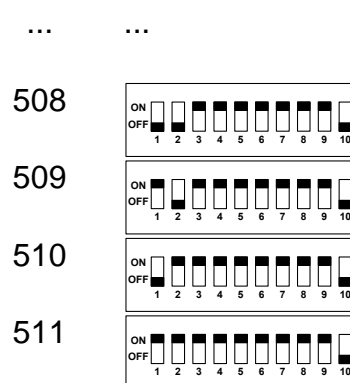
The starting address is adjustable via the DIP-Switches. Thereby switch 1 has the valency 2^0 (=1), switch 2 the valency 2^1 (=2) etc. up to switch 9 with the valency 2^8 (=256).

The sum of the switches showing ON complies with the starting address.

Address Switch



Address Switch

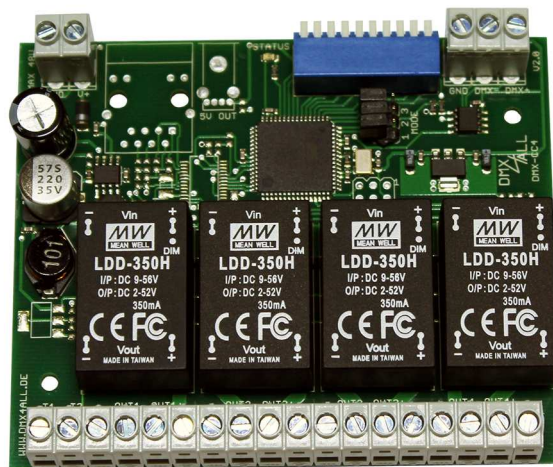


Constant current modules

The following constant current modules for the DMX-LED-Dimmer CC4 are available as accessory:

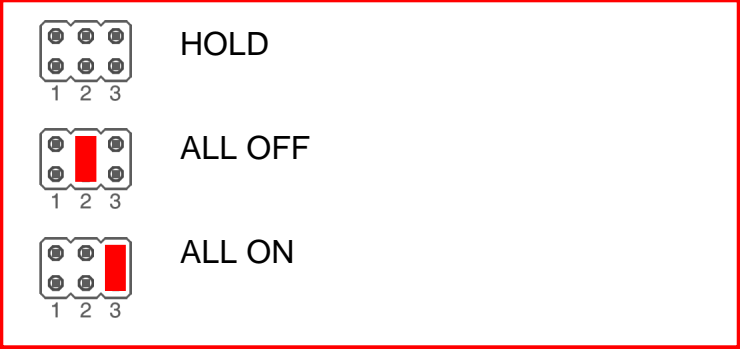
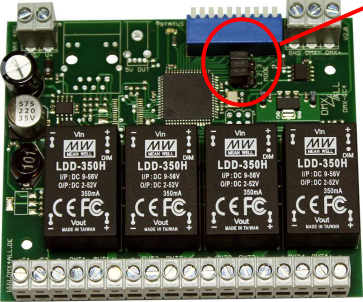
- Constant current LED-Driver LDD-300H (300mA)
- Constant current LED- Driver LDD-350H (350mA)
- Constant current LED- Driver LDD-500H (500mA)
- Constant current LED- Driver LDD-600H (600mA)
- Constant current LED- Driver LDD-700H (700mA)
- Constant current LED- Driver LDD-1000H (1000mA)
- Constant current LED- Driver LDD-1200H (1200mA)
- Constant current LED- Driver LDD-1500H (1500mA)

Inserting the constant current module occurs that the output of the module (Vout) shows towards output terminal:



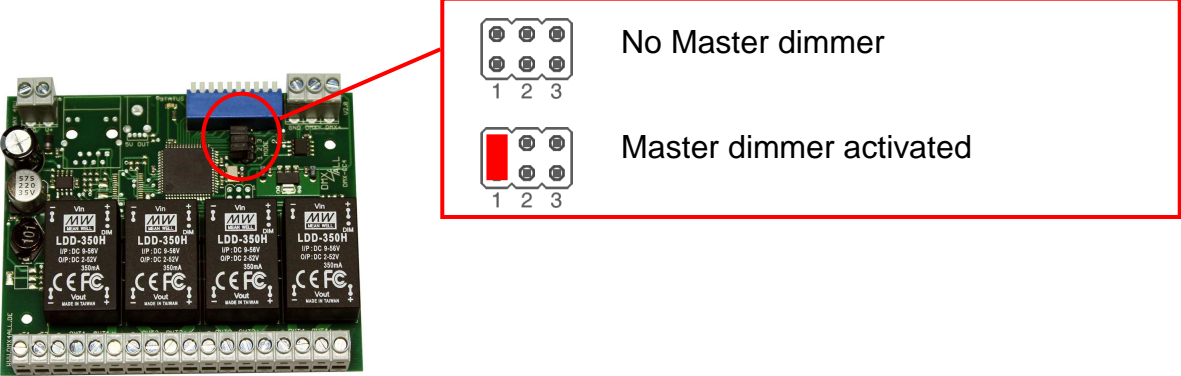
Set DMX-FAIL-Option

The **DMX-LED-Dimmer CC4** has several DMX-FAIL-Options adjustable via Jumper 2 and 3:



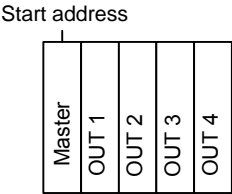
Activate Master-Dimmer

The DMX-LED-Dimmer CC4 has one Master-Dimmer which can be activated.

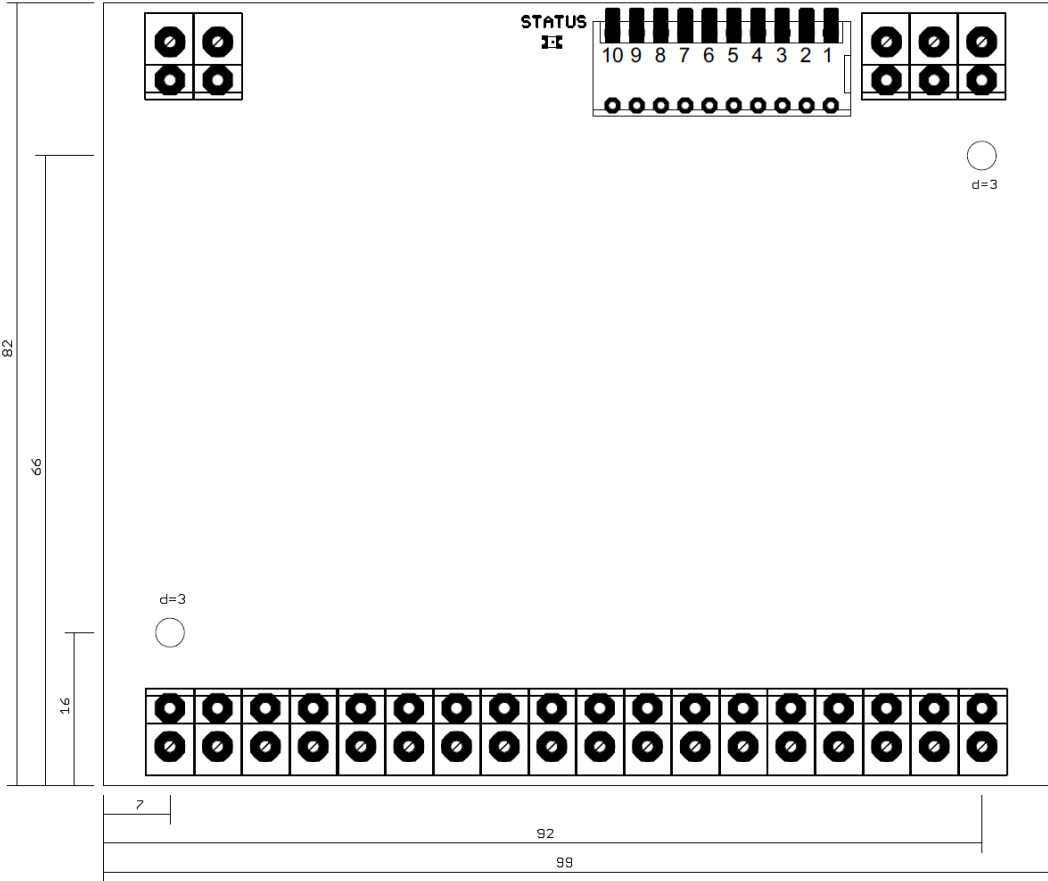


Master dimmer

This DMX-Channel which is set as start-address is used as Master-Dimmer for all 4 outputs. The DMX-Addresses assignment is as follows:



Dimensions



(all details in mm)

Accessory

Top-hat rail mounting 1050



Constant current LED-Module

- Constant current LED-Driver LDD-300H
- Constant current LED-Driver LDD-350H
- Constant current LED-Driver LDD-500H
- Constant current LED-Driver LDD-600H
- Constant current LED-Driver LDD-700H
- Constant current LED-Driver LDD-1000H
- Constant current LED-Driver LDD-1200H
- Constant current LED-Driver LDD-1500H



CE-Conformity



This assembly (board) 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.

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 a 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.

Disposal



Electrical and electronic products must not be disposed of in domestic waste. Dispose of 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.



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Last changes: 29.10.2018

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