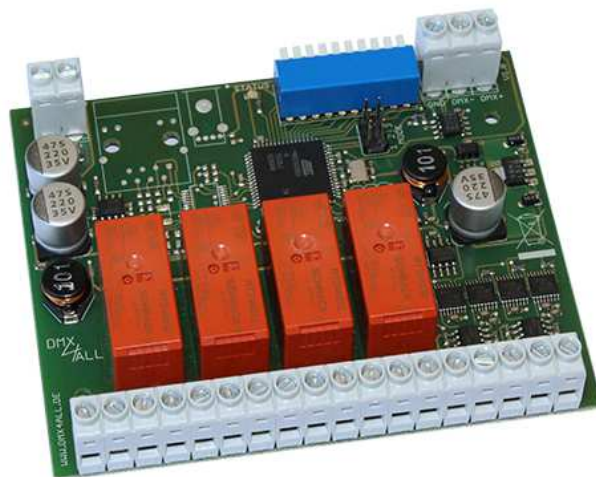


DMX Relais/Analog Interface 4

User Manual



DMX [®]
4
ALL

Description

The **DMX-Relais/Analog Interface 4** is designed for several controlling tasks.

In total, 4 switching contacts and 4 analog output signals are available.

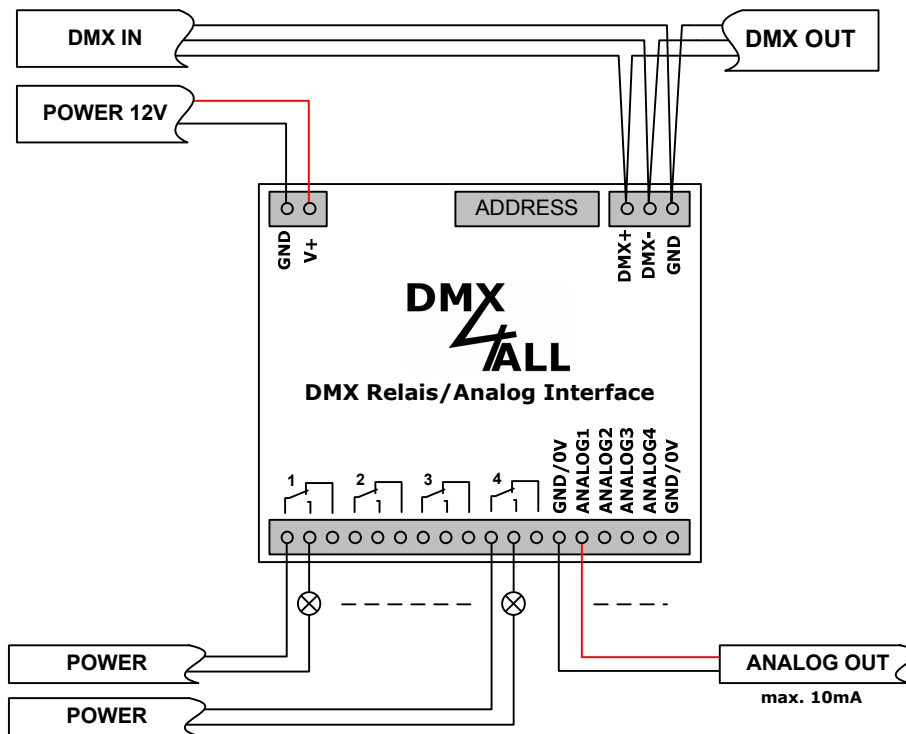
The switching contacts are suitable for switching DC voltage as well as AC voltage.

A DMX-HOLD function, which can be activated optionally, assumes the switch states and analog values unchanged in the case of fall out the DMX-signal.

Technical data

Power supply:	12-24V DC / 500mA
DMX-Channels:	depending on operating mode 4 or 8 channels
DMX-HOLD:	activable
Output:	4 switch max. 8A / 250V~ 165A@20ms inrush current
	4 analog signals 0-10V or 1-10V / max. 10mA
Dimensions:	99mm x 82mm

Connection



LED-Display-Codes

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 signalled the operation status. 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 entry
2	Address error	Please check the adjusted starting address

Addressing

The DMX-starting address is adjustable via switch 1 to 9.

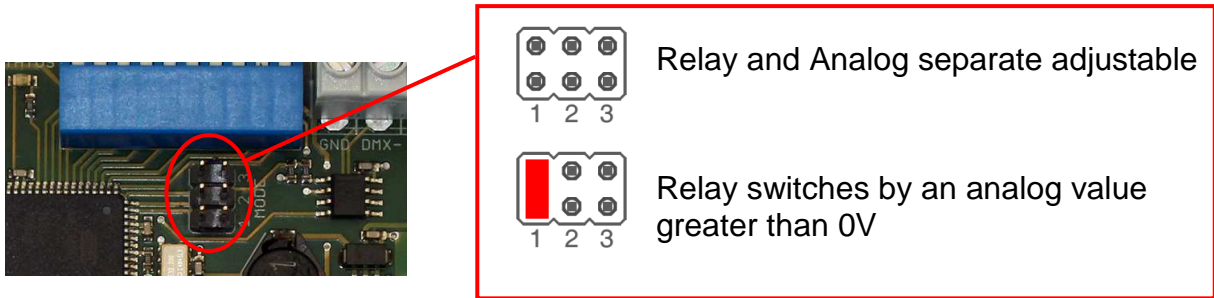
Thereby switch 1 has the valency $2^0 (=1)$, switch 2 the valency $2^1 (=2)$ and so on until switch 9 has the valency $2^8 (=256)$. The sum of the counters showing ON corresponds to the starting address.



Switch Relay by an analog value greater than 0V

This mode doesn't use separate DMX-channels for the relays. The relay switches immediately as soon as the analog value is greater than 0V or the DMX-value for the analog output is greater than 0.

To activate this mode please set the MODE-Jumper 1:



In this case the DMX-channel assignment as follows:

DMX-channel configuration with 8 Bit:

Start address
Analog+Relais 1
Analog+Relais 2
Analog+Relais 3
Analog+Relais 4

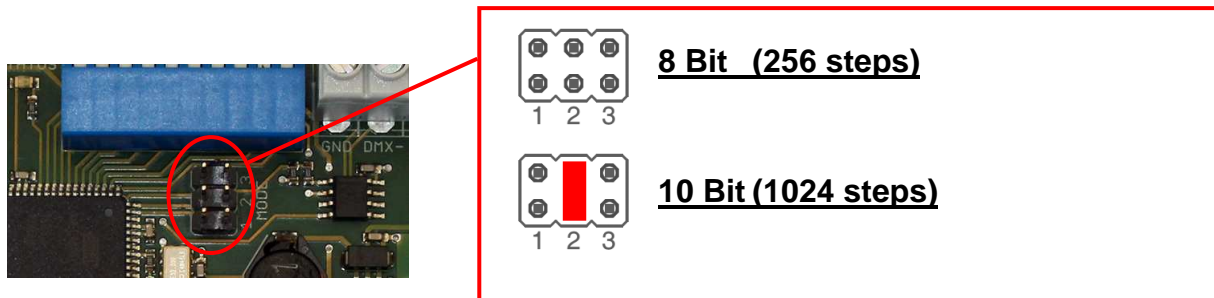
DMX-channel configuration with 10 Bit:

Start address
Analog+Relais 1 H
Analog+Relais 1 L
Analog+Relais 2 H
Analog+Relais 2 L
Analog+Relais 3 H
Analog+Relais 3 L
Analog+Relais 4 H
Analog+Relais 4 L

Resolve the adjusted analog outputs

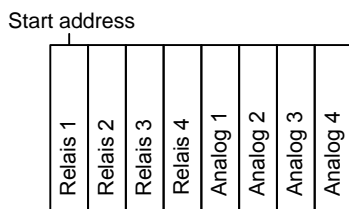
The analog output resolution will be adjusted via the MODE-Jumper 2.

The analog outputs are practicable with a resolution of 8 Bit (256 steps) or 10 Bit (1024 steps).

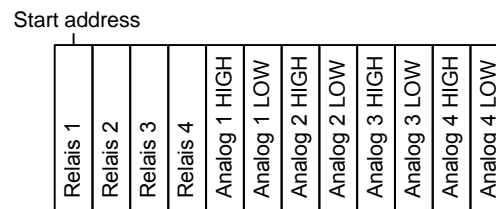


Depending on the resolutions setting the analog output there is needed per output one or two DMX-channels, as shown in the following picture.

DMX-channel configuration with 8 Bit:

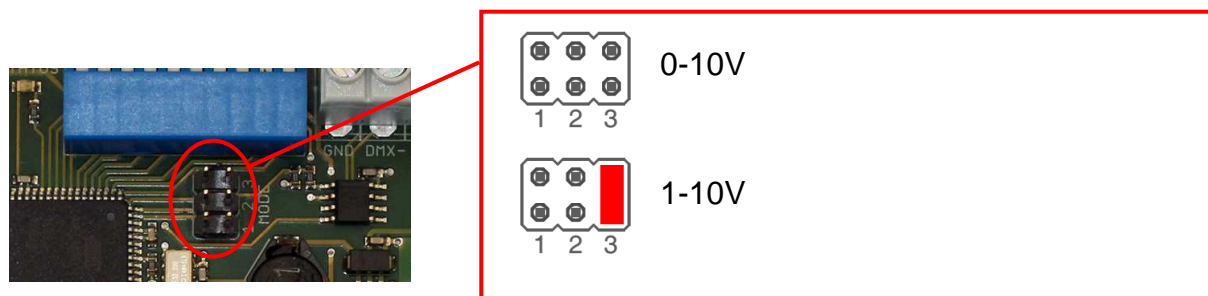


DMX-channel configuration with 10 Bit:



Setting the output voltage 0-10V / 1-10V

The analog outputs output voltage is adjustable via the MODE-Jumper 3:



DMX-HOLD Function

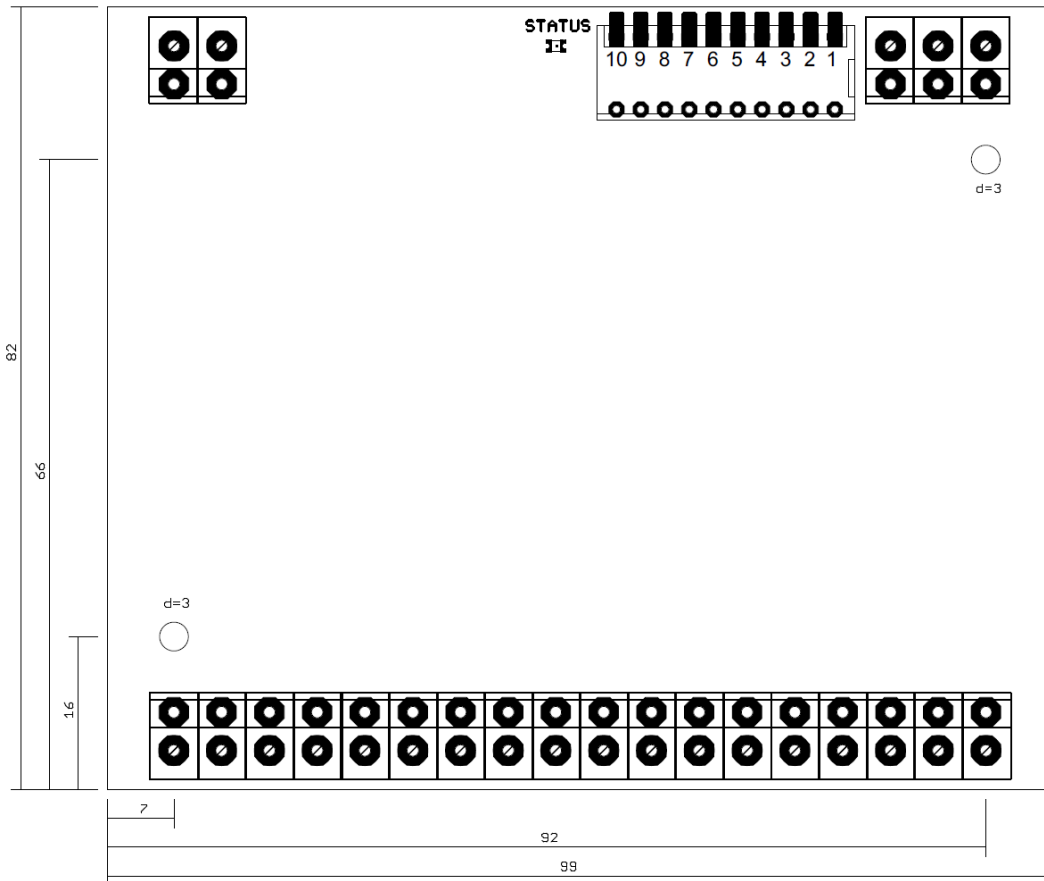
The **DMX-Relais/Analog Interface** has a DMX-HOLD Function which stores the last value in the case of a loss DMX-signal and the relay and the analog outputs assumes in its state unchanged.

If the DMX-HOLD Function isn't active, all relays will be shut down in the case of a loss DMX-signal and 0V outputted to the analog outputs.
In the case of an power cut the stored values will be rejected !

To activate the DMX-HOLD Function use switch 10.

- Switch 10 ON → DMX-HOLD active
- Switch 10 OFF → DMX-HOLD not active

Dimensions



(all details in mm)

Equipment

Top-hat rail housing 1050



Power supply 12V / 20W



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. Conformance 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.



DMX4ALL GmbH
Reiterweg 2A
D-44869 Bochum
Germany

Last changes: 09.12.2016

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