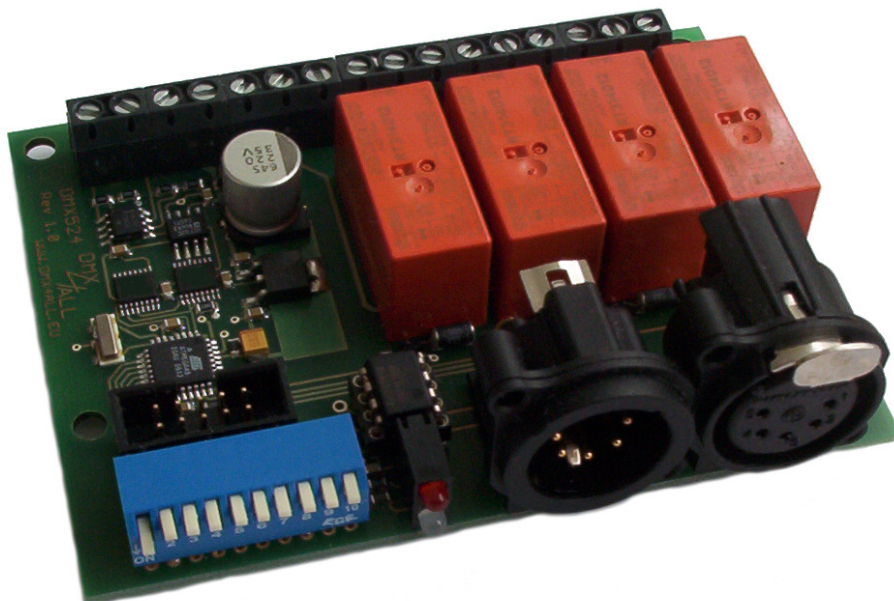


DMX Relais /Analog Interface

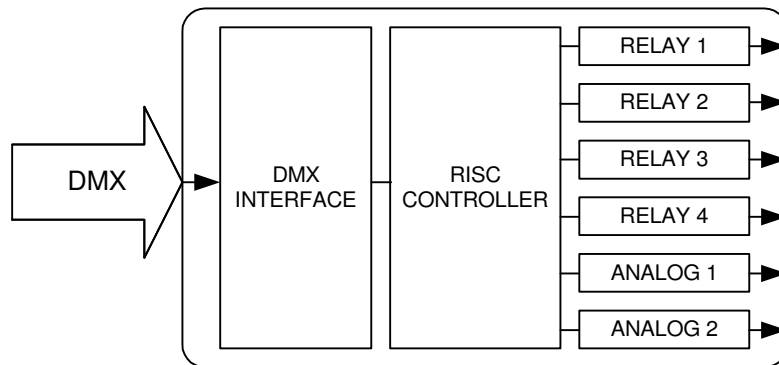
User Manual



DMX [®]
4
ALL

Description

The DMX Relais and Analog Interfaces are designed for controlling tasks different kinds. Thereby 4 independent switching contacts and 2 analog 0-10V outputs are available.



The board has on one site 3 or 5 pin XLR-connectors as well as the address settings via DIP-switch.

Technical Data

Power supply:	12V DC / 500mA
DMX-channels:	depending on operating modes 6 or 8 channels
DMX-connections:	via 3 or 5 pin XLR-connector (Depending on version)
Outputs:	4 switching output (reverser) max. 5A / 250V~ 2 analog outputs 0-10V with 256 or 1024 steps
Board dimensions:	100mm x 73mm

LED-Display

The LED is a multifunctional display. In the normal operation mode the LED lights non-stop. In this case the device is working. If the LED is permanently dark, there is no DMX512-input-signal.

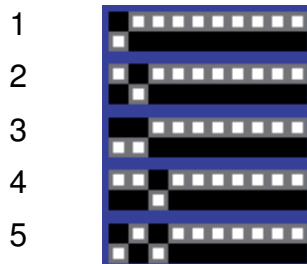
Furthermore the LED signals the operation status. In this case, the LED lights up in short pitches and then turns into off modus. The number of flashing signals is equal to the number of the error status:

Error status	Error	Description
1	Settings saved	The settings are saved
2	Address error	Please check if a valid DMX-starting address is adjusted at the DIP-switch
3	DMX-signal erro	An invalid DMX input signal is determined, invert the signal line by changing switch 2 and 3 or use a twisted pair wire.

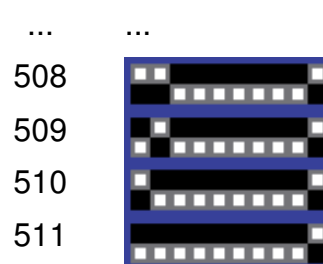
Addressing

The starting address is adjustable via a DIP-Switch. Switch 1 has the valency 2^0 (=1), switch 2 has the valency 2^1 (=2) and so on... finally switch 9 has the valency 2^8 (=256). The sum of the switches showing ON, represents the starting address.

Address Switch



Address Switch



Setting the operation mode

The analog outputs of this DMX-Interface can be conducted with a resolution of 8Bit (256 steps) or 10Bit (1024 steps). You define the operation mode by setting switch 10 on ON. Then you can perform the settings as follows:

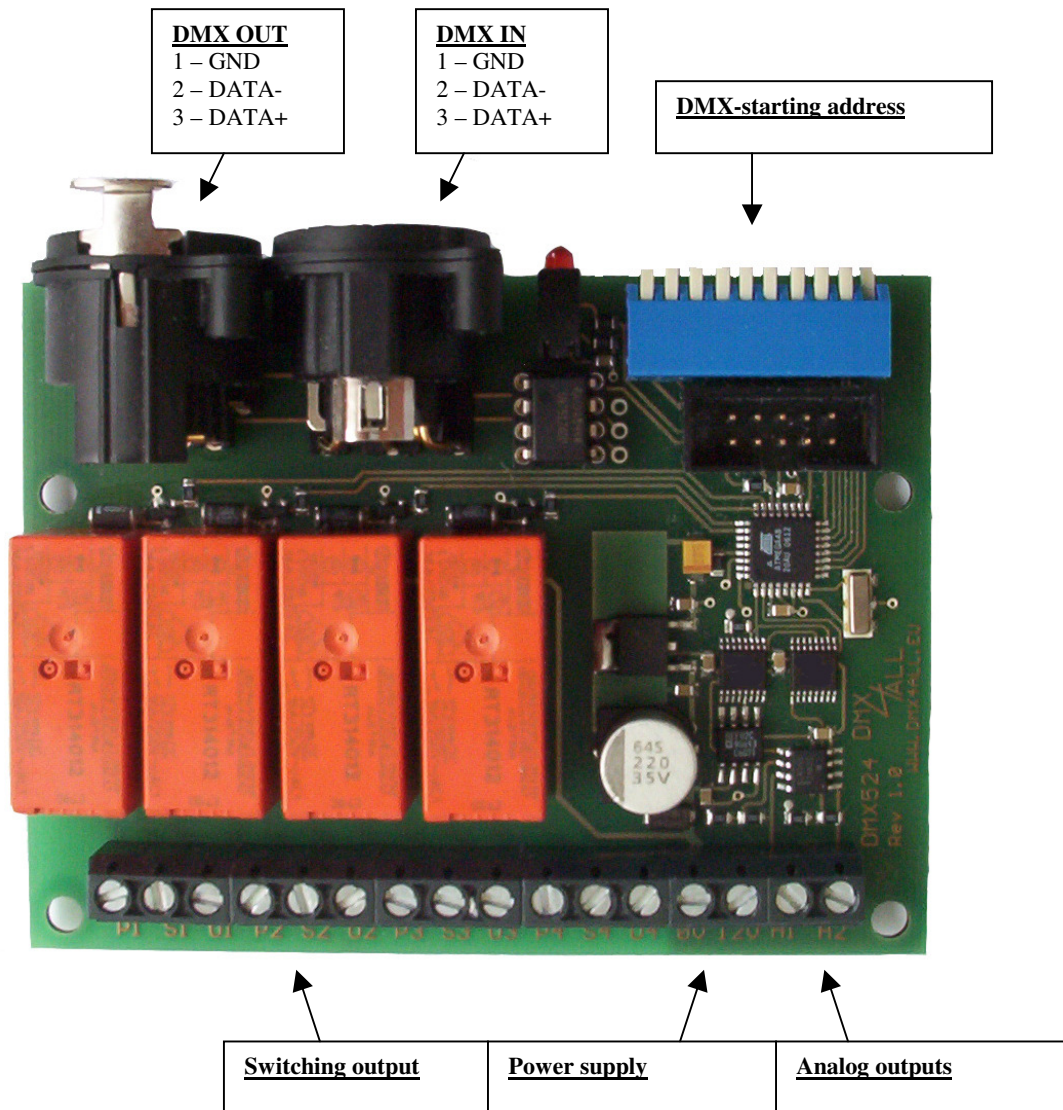
Switch 1 open	8 Bit	(256 steps)
Switch1 closed	10 Bit	(1024 steps)
Switch 2 open	Outputs will be shut down at DMX-breakdown	
Switch 2 closed	Outputs stay in the latest condition at DMX-breakdown	

Please carry out the settings in a power supply free condition and switch on the power supply to save the settings. The LED flashes now with the error status 1.

Depending on the analog outputs resolution one or two DMX-channels are necessary. The following table shows the DMX-channels assignment:

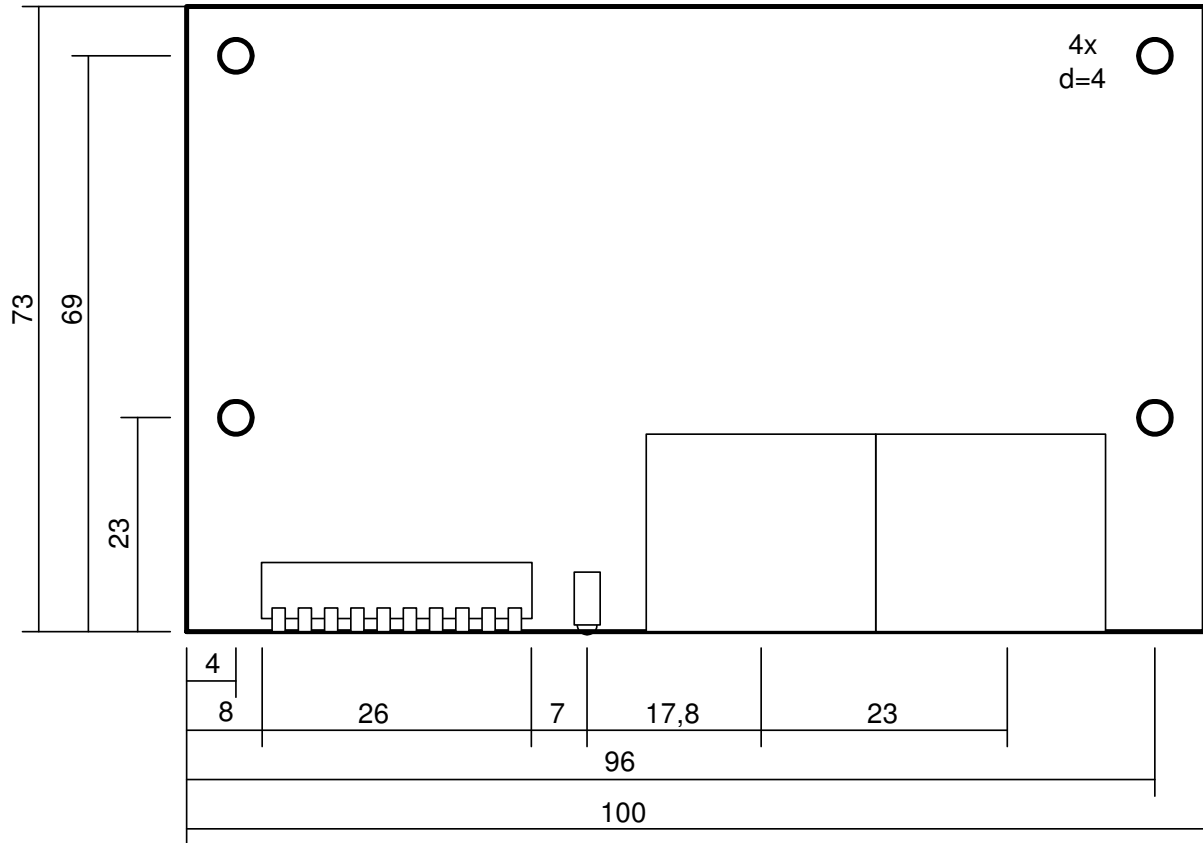
DMX-channel	8 Bit operation	10 Bit operation
1	Analog 1	Analog 1 roughly
2	Analog 2	Analog 1 fine
3	Relais 1	Analog 2 roughly
4	Relais 2	Analog 2 fine
5	Relais 3	Relais 1
6	Relais 4	Relais 2
7		Relais 3
8		Relais 4

Connecting the interface

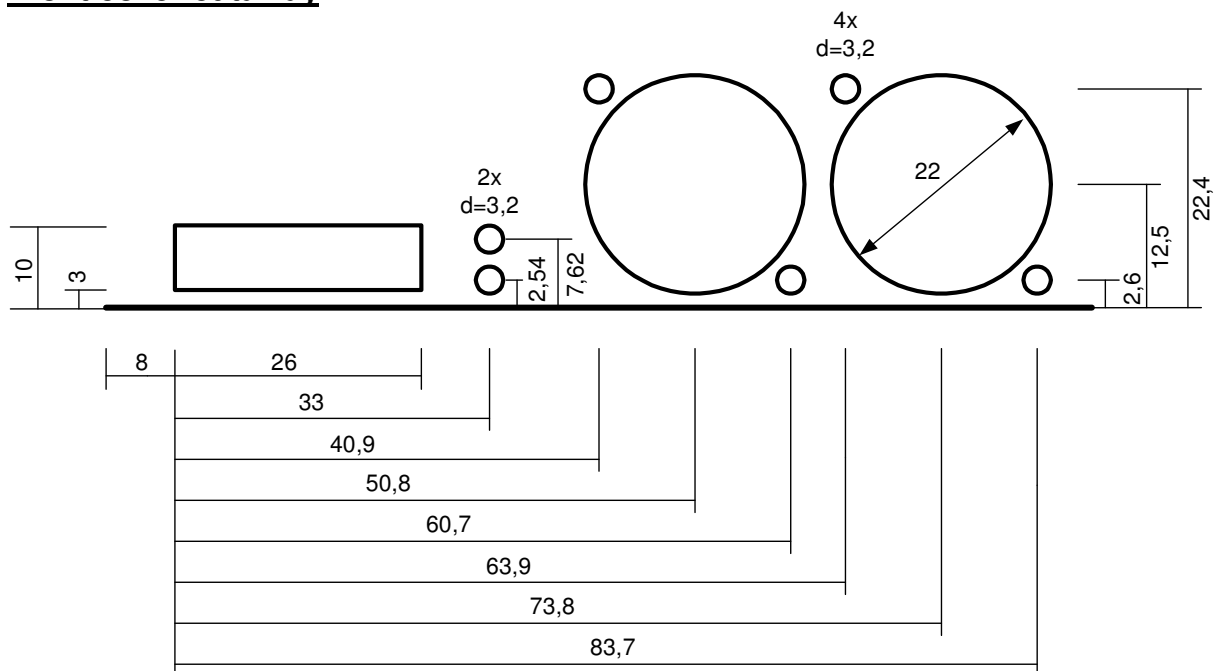


Dimensions

Board fixation



Front cover cutaway



(all infos in mm)

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.



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