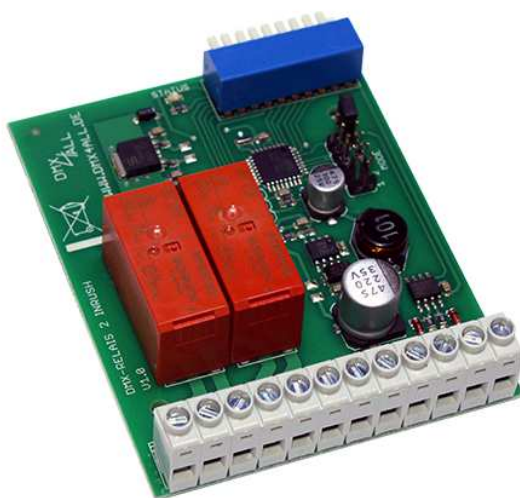


DMX-RELAIS 2 INRUSH

User manual



DMX [®]
4
ALL

Description

The **DMX-RELAIS 2 INRUSH** is designed for several switching tasks.

There are 2 potential free switching outputs (make contact) up to 8A switching capacity is available.

The relay interface is suitable for switching DC voltage as well as AC voltage.

A DMX-FAIL Function, which can be activated optionally, leaves the relays conditions unchanged in the case of a DMX-Signals breakdown.

The following operating modes are available:

- **Standard 2 Channel Relaisinterface**
2 independent switching outputs turned on, as soon as the DMX-Value reaches the range of 128-255.
- **FogControl**
2 switching outputs controlled by a DMX-Channel. Output 1 is for the heating element and output 2 is indicated for the pump. An internal timer allows the automatically fog output.
- **Jalousie-Control**
2 mutually locked switching outputs controlled by 2 DMX-Channels if the DMX-Value reaches the range of 128-255.
- **Impulse**
If the DMX-Value is located in the range of 128-255 the according output is turned on for 1 second. Afterwards the value must be dropped below 128 to trigger an impulse once again.
- **DMX-Value bigger 0**
2 independent switching outputs will be turned on as soon as the DMX-Value reaches the range 1-255.

Data sheet

Power supply:	12-24V DC (150mA@12V / 100mA@24V)
DMX-Channels:	according to operating mode 1 or 2 channels
DMX-FAIL:	OFF / HOLD
Operating modes:	Standard Jalousie control FogControl Impulse DMX-value bigger 0
Output:	2 potential free switching contacts each max. 8A 165A@20ms Peak inrush current
Dimensions:	64,2mm x 82mm

LED-Display-Codes

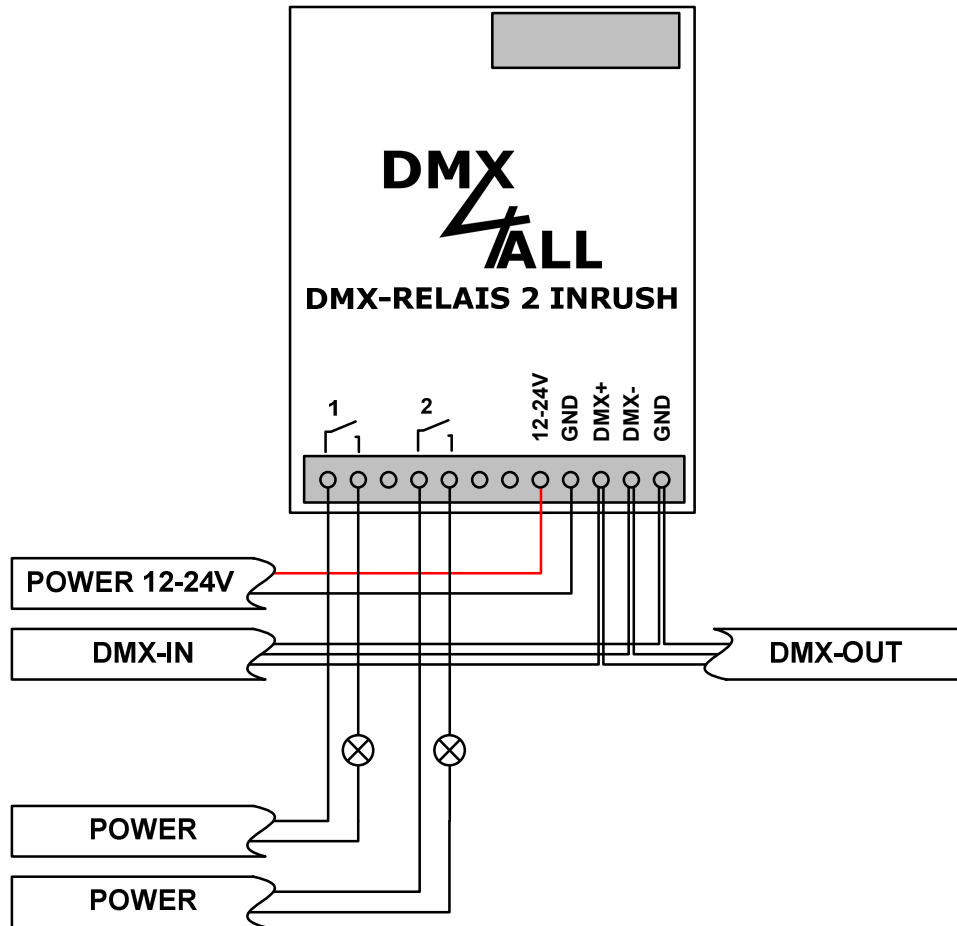
The integrated LED is a multifunctional display.

During the normal operation the LED lights continuously. In this case the device is working. If the LED is permanently dark, there is no DMX512-signal at the entry.

Furthermore the events are signalled via the LED. In this case the LED lights up in short pitches and then is missing for a longer time. The number of flashing lights represents the event number:

Event-number	Error	Description
1	No DMX	There is no DMX-input signal
2	Addressing error	Please check the adjusted DMX-Address
3	DMX-Signal error	An invalid DMX-input-signal is detected

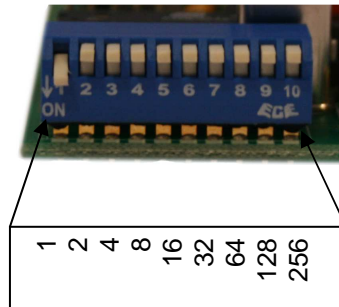
Connection



Switching contacts
each max. 8A
(165A@20ms Peak inrush current)

Addressing

The starting address is adjustable via the DIP switches. Thereby switch 1 has the valency 2^0 (=1), switch 2 valency 2^1 (=2) and so on, until switch 9 has the valency 2^8 (=256). The switches showing ON represent in sum the starting address.



Address	Switch	Address	Switch
1	
2		508	
3		509	
4		510	
5		511	

DMX-HOLD Function

The DMX-RELAIS 2 INRUSH has a HOLD-Function which stores the last value in the case of a DMX-signals loss and the relays are left unchanged in its conditions.

If the HOLD-Function is not activated, all relays will be shut down by a loss DMX-Signal.

In the case of a power failure the stored value will be rejected !

The DMX-HOLD function can be activated by switch 10.

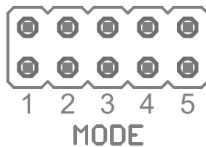
- Switch 10 ON → DMX-HOLD active
- Switch 10 OFF → DMX-HOLD not active

Select operating mode

Standard

2 independent switching outputs are switched, as soon as the DMX-Value reaches the range of 128-255.

For this operation mode please open all MODE-Jumper 1-5:

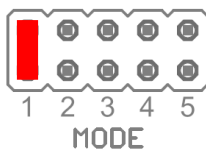


DMX Channel	DMX Value	Function
1	0-127	Output 1 OFF
	128-255	Output 1 ON
2	0-127	Output 2 OFF
	128-255	Output 2 ON

FogControl

2 switching outputs controlled by a DMX-Channel. Output 1 is for the heating element and output 2 is indicated for the pump. An internal timer allows the automatically fog output.

For this operation mode please close only MODE-Jumper 1:

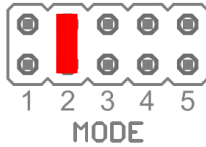


DMX Channel	DMX Value	Function
1	0-7	Device off
	8-20	Device on, no fog emission
	21-40	Timer 10s on / 300s off *
	41-60	Timer 20s on / 350s off *
	61-80	Timer 30s on / 200s off *
	81-100	Timer 40s on / 150s off *
	101-120	Timer 50s on / 100s off *
	121-140	Timer 60s on / 75s off *
	141-160	Timer 70s on / 50s off *
	161-180	Timer 80s on / 40s off *
	181-200	Timer 90s on / 30s off *
	201-220	Timer 100s on / 20s off *
	221-240	Timer 110s on / 10s off *
141-255	Permanent fog emission	

Jalousie-Control

2 mutually locked switching outputs controlled by 2 DMX-Channels. Only one relay is controlled if the DMX-Value is in the range of 128-255.

For this operation mode please close only MODE-Jumper 2:

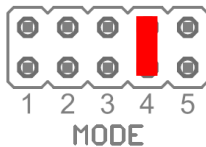


DMX Channel	DMX Value	Function
1	0-127	Output 1 OFF
	128-255	Output 1 ON, if output 2 OFF
2	0-127	Output 2 OFF
	128-255	Output 2 ON, if output 1 OFF

Impulse

If the DMX-Value is in the range of 128-255 the according output is turned on for 1 second. Afterwards the value must drop below 128 to trigger an impulse once again.

For this operation mode please open all MODE-Jumper 4:

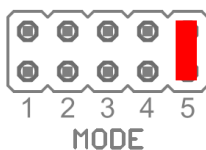


DMX Channel	DMX Value	Function
1	0-127	Output 1 OFF
	128-255	Output 1 1x 1- second ON
2	0-127	Output 2 OFF
	128-255	Output 2 1x 1-second ON

DMX-Value bigger 0

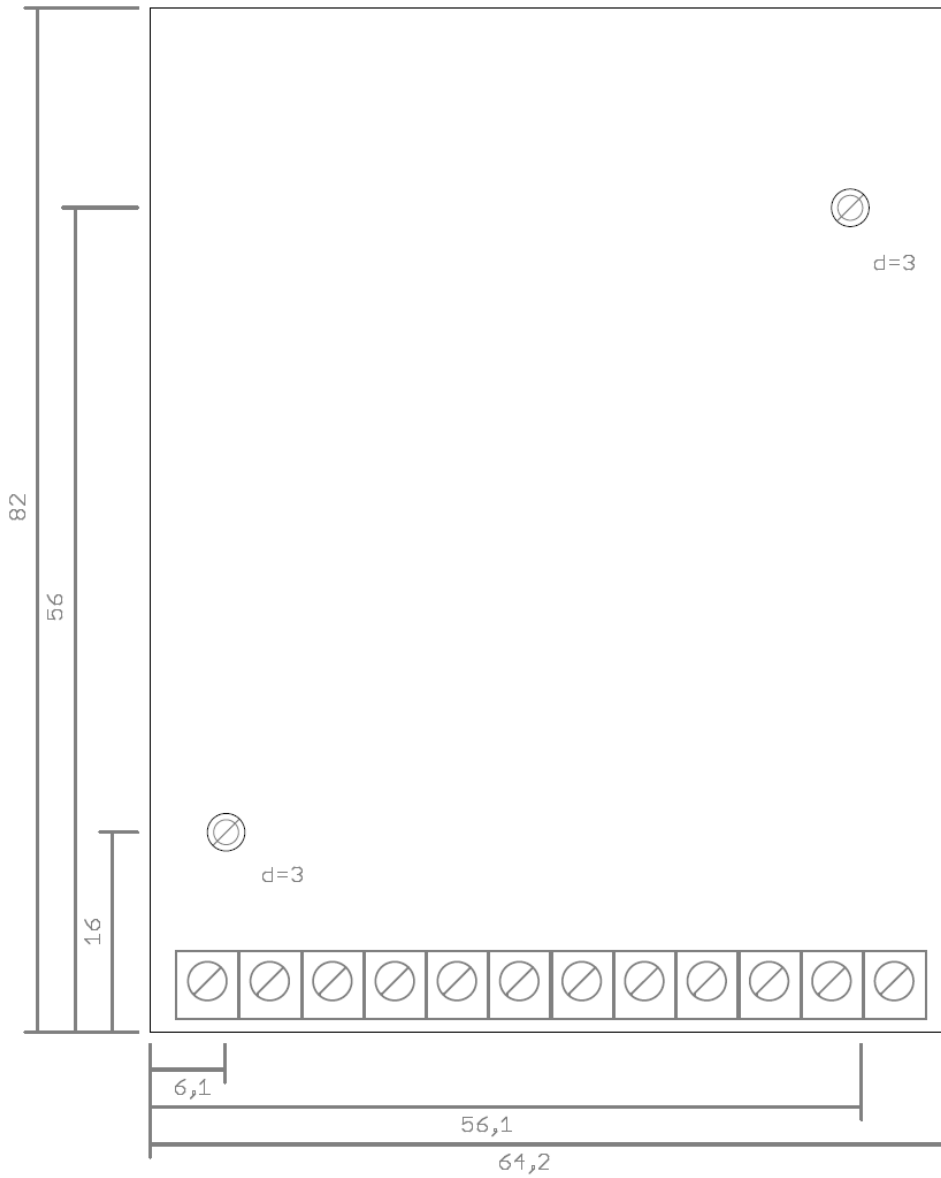
2 independent switching outputs will be turned on as soon as the DMX-Value reaches the range 1-255.

For this operation mode please open all MODE-Jumper 5:



DMX Channel	DMX Value	Function
1	0	Output 1 OFF
	1-255	Output 1 ON
2	0	Output 2 OFF
	1-255	Output 2 ON

Dimensions



All details in mm

Accessory

Top-hat rail housing 700



Power supply 12V / 20W



CE-Conformity



This 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. 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.

Disposal



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