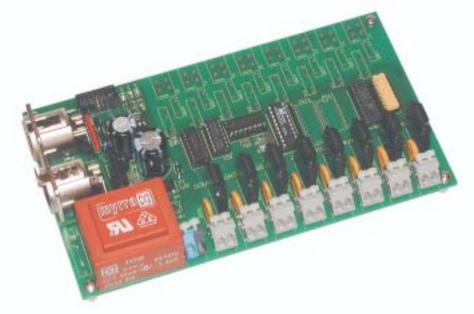
Issue 05/02

OPERATING MANUAL

DMX Relay Card 3008R



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PREFACE

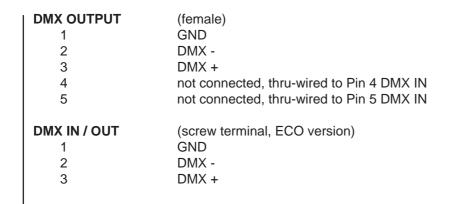
Thank you for choosing a SOUNDLIGHT device. The SOUNDLIGHT DMX Relay Card 3008R is an intelligent DMX demultiplexer decoding digital data complying with standard USITT DMX512 and DIN 56930-2 to optically isolated potential-free closed solid state relay contacts. The card can be used with all standard light control systems. Its special advantages include: universal protocol decoding Recognizes all variants of the protocol as defined by USITT / ESTA / DIN future-proof The unit is software controlled an can easily be adapted to any change in protocol definition. silent switch trip points The card is fitted with SSR solid state relais with zero crossing detectors, thus enabling smooth and noisefree switching. simple supply The power supply is achieved by its own PSU, power supply is 230V AC. signal loss In the case of a loss of the drive signal the last setting will remain intact. cost-effective The SOUNDLIGHT 3008R is a cost-effective solution for many purposes. UNPACKING Please unpack carefully and check that all items are intact. When leaving our factory, the card has been in good condition. In case of damage during transport please notify the carrier immediately. When unpacking, you should identify these items: the interface card 3008R this manual INSTALLATION Please mount the card in a closed, screened case. The card features fastening holes for tapped screws M3. We recommend use of brass distance bolts or spacers to mount the card 10mm above the case base plate. Connect the power supply to the 230V connector (blue/black). The power supply connectors are: black: 230V AC inphase blue: Neutral Upon application of mains voltage the card is ready for operation. **DMX INPUT / OUTPUT** Connection to the DMX512 data line is by 5-pin onboard XLR connectors, as defined in the standards document. 3008R-ECO boards are fitted with srew type terminals, which serve as DMX input. For pin assignment see below. **DMX INPUT** (male) 1 GND 2 DMX -3 DMX +

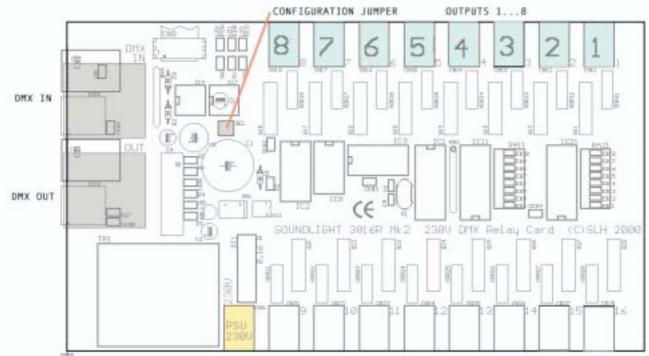
not connected, thru-wired to Pin 4 DMX OUT

not connected, thru-wired to Pin 5 DMX OUT

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POWER SUPPLY 238V

POWER CONNECTORS

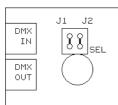
The relay card 3008R consists of connectors for switched power inputs and outputs.

230V 230 V AC Power supply (2-pin spring terminal) 1 Neutral [BLUE] 2 [BLACK] Live 115/230V (see model) **CN21** Switched Output CH 1 (2-pin spring terminal) S1 1 S2 2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor) **CN22** Switched Output CH 2 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)



CN23	Switched Output CH 3 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)
CN24	Switched Output CH 4 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)
CN25	Switched Output CH 5 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)
CN26	Switched Output CH 6 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)
CN27	Switched Output CH 7 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)
CN28	Switched Output CH 8 (2-pin spring terminal) 1 S1 2 S2 Output connectors are paralleled by a VDR (260V Protective Transzorb Resistor)
	SIGNAL INDICATORS
The state of	of the demultiplexer card is signalled with two indicator LEDs.
green: red:	OPERATION (blinking) ERROR (blinking)
	Error blinking at data errors or loss of communication. ators will be flashing randomly in very short intervals regardless of state. This is normal and does cate activity of the on-board decoder.
	START ADDRESS SWITCHES
	decimal coding switches set the start address, that is the address of the first channel to be docoded. g is fully decimal, no binary conversion is necessary as is with DIL switches. S1: Ones S2: Tens S3: Hundreds
If the switc	h block is set to non-defined address 000, all outputs are disabled regardless of the data received.
	DMX CHANNEL ALLOCATION
	CN24 CN25 CN26 CN27 CN28 The state of green: red: Both indica simply indi

JUMPER SETTINGS



Two optional jumpers allow configuration of the 3008R relay card..

J1 set: alternative channel allocation set (see below) J2 set: internal DMX line termination activated

ALTERNATIVE CHANNEL ALLOCATION

(not available with 3008R-ECO model)

When setting Jumper J1, the card will use 9 DMX data slots instead of 8. The first channel will then be used as configuration channel to set the mode of operation, subsequent channels (data slots) 2...9 will operate the relay outputs according to the appropriate function table.

DMX-Channel 1 000-063	Mode: single channel mode with hysteresis <25% = off, >75% = on switching is as defined in channels 29
064-127	single channel mode without hysteresis trip point: 50% switching is as defined in channels 29
128-191	Bit-Mode, switching as defined by channel 2 contents Bit0 = Output 1. Bit1 = Output 2, Bit2 = Output 3 etc.
192-255	VU-Meter-Mode, as defined by channel 2 contents 000-032 = all outputs off 033-064 = output 1 065-096 = output 1 + output 2 097-128 = output 1 + output 2 + output 3 etc till 255 = all outputs on
DMX channels 29	OUTPUT (as described above)

SERVICE SETTINGS

The DMX relay card 3008R can be set to various service settings. This is to test individual outputs. Settings include:

801:	Output 1 On
802:	Output 2 On
	etc. until
808:	Output 8 On

Please allow up to 1 second for the outputs to settle according to the test switch state.

SOLID STATE RELAYS

The card is equipped with 230V Solid State Relays, which allow a miximum current of up to 5 Amps - but then require absolute forced cooling. Thus a maximum operating power limit of 500W (2Amps) has been set. Switching voltage is 230V AC. The Solid State Relay is bypassed with a 260V Varistor for protection against voltage spikes.

Please note that the outputs require AC for correct operation. DC switching is **not** supported.



