OPERATING MANUAL

DMX Relay Card 3002R-H

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PREFACE

Thank you for choosing a SOUNDLIGHT device.
The SOUNDLIGHT DMX Relay Card 3002R-H is an intelligent DMX demultiplexer decoding digital data complying with standard USITT DMX512 and DIN 56930-2 to contact relay output. 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 and can easily be adapted to any change in protocol definition.

- **integrated hysteresis**
  Integrated hysteresis ensures flicker free switching

- **simple supply**
  The power supply is from standard mains voltage 230V AC

- **signal loss hold function**
  In the case of a loss of the drive signal the last setting will remain intact.

- **cost-effective**
  The SOUNDLIGHT 3002R-H 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 3002R-H
* this manual

INSTALLATION

The unit snaps onto a standard DIN rail. To remove the unit, tear the yellow locker tab using a screwdriver and remove the relay module.

All connetios to the relay module are via spring loaded terminals. To insert a wire, press the appropriate lever, insert the wire and release.

POWER SUPPLY

The power supply connector colors are:
    dark grey: 230V AC (Phase)
    blue: 0 V AC (Neutral)

Upon application of supply voltage the card is ready for operation.
Power supply is fused internally. If the unit fails replace the fuse with same type and rating (SMD, 125mA, fast)

Connection to the DMX512 data line is by two connector terminal blocks. Either block can be used as signal input or as signal output, with both terminal blocks being fed-thru.
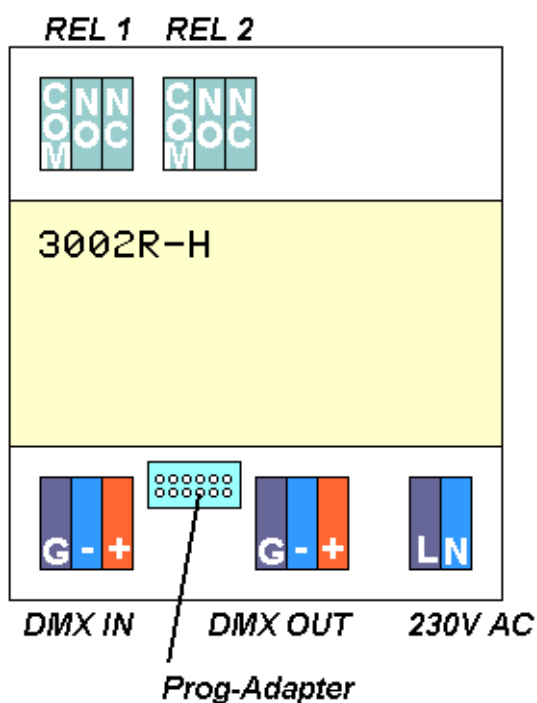
DMX INPUT
1: grey	GND
2: blue	DMX -
3: red	DMX +

DMX OUTPUT
1: grey	GND
2: blue	DMX -
3: red	DMX +

Use the shown pinout to connect to a standard DMX XLR connector.

The drawing shows the position of the onboard connectors. Please refer to the text for functionality of the connectors.

SIGNAL INDICATORS

The state of the demultiplexer card is signalled with two indicator LEDs.

green:	OPERATION (blinking)
red:	ERROR (blinking)
	Error blinking at data errors or loss of communication.

START ADDRESS SETTING

As the unit is intended for use within building site installations, there are no switches for any type of configuration. Start address setting is via internal EEPROM (electrically eraseable programmable read only memory). Every time the card is powerd up, it reads the preprogrammed start address and sets the internal decoder accordingly. To set a different start address, attach the optionally available programming adaptor (switch board).

START ADDRESS PROGRAMMING

to program a different start address, proceed as follows:
- detach the address board
- set a start address -1
- attach the address board
- power up the 3002R-H relay interface
- set the start address to the desired value
- the unit will program that address and indicate programming
  through blinking both LEDs four times

EXAMPLE: set start address 122
- unpower the interface
- detach the start address board
- set a start address of 121
- attach the address board
- power up the decoder
- set a start address of 122 (increment by one)
- watch the unit do the programming (blink four times)
- detach the start address switch board

Next time the unit is powered up, the programmed start address will be read from memory.

TECHNICAL DATA

Dimensions: 85 mm x 66 mm x 112 mm (W x H x D)
Power Supply: 230V AC approx. 5VA
DMX IN: 1 Unit Load
DMX OUT: fed-through
Relay Out: 2x changeover, contact rating max. 10A resistive load
Order Code.:   3002R-H

DISTURBANCES

If a trouble-free operation cannot be guaranteed, disconnect the relay card interface and secure it against unwanted operation. This is especially necessary, when
- the unit has visible damages;
- the unit does not operate;
- internal parts are loose;
- connection cables show visible damages.

LIMITED WARRANTY

This instrument ist warranted against defects in metarials and workmanship for a period of 12 month, beginning with the date of purchase. The warranty is limited to repair or exchange of the hardware product; no further liability is assumed. SOUNDLIGHT is not responsible for damages or for loss of data, sales or profit which arise from usage or breakdown of the hardware product. In germany, SOUNDLIGHT will repair or replace established defects in hardware, provided that the defective part is sent in, freight paid, through the responsible dealer along with warranty card and/or sales receipt prior to expiration of warranty.

Warranty is void:
- when modifying or trying to repair the unit without authorisation;
- modification of the circuitry;
- damages by interference of other persons;
- operation which is not in arccordance with the manual;
- connection to wrong voltage or current;
- misuse.

SERVICE

There are no parts within the DMX relais card 3002R-H which require the user's attention. Should your unit require servicing, please send it to the factory, freight paid.

INTERNET-HOTLINE

Please check our internet domain **http://www.soundlight.de** for new versions, updates etc. If you have any comments which may be worth considering, please send a message to *support@soundlight.de*. We will check your message and reply accordingly.