

## OPERATING MANUAL

### DMX Line Booster 3401B-H



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**Thank you for choosing a SOUNDLIGHT product.**

The SOUNDLIGHT DMX Line Booster 3401B-H has been designed for lighting control systems using USITT DMX512/1990, DMX DIN56930-2, ANSI E1-11 DMX512-A or ANSI E1-20 DMX RDM. The interface can be used with all standard light control systems. Its special advantages include:

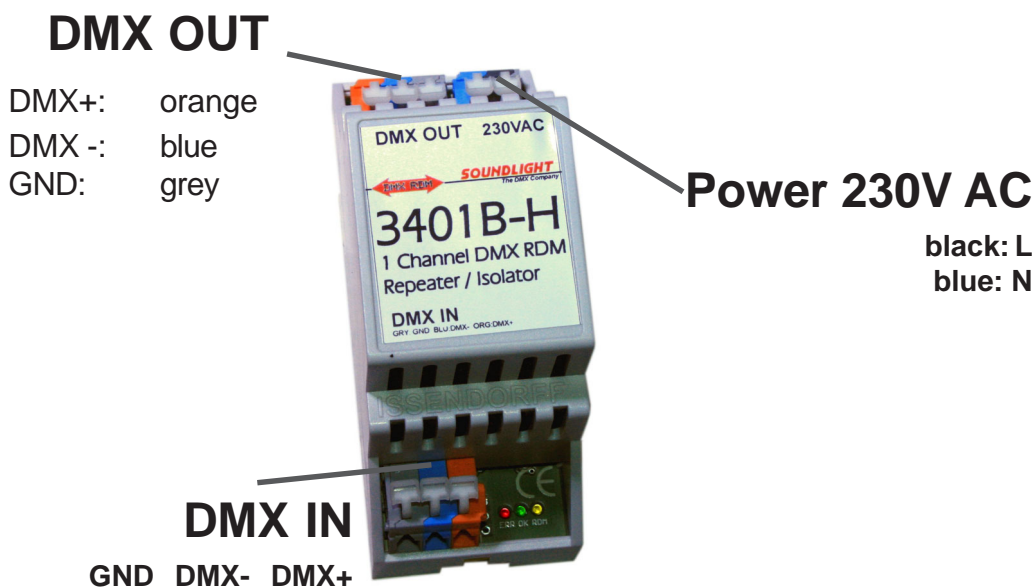
- **universal protocol decoding**  
Recognizes all variants of the protocol as defined by USITT/ESTA/WETF/DIN
- **future-proof**  
The unit is software controlled and can be adapted to any change in protocol definition.
- **simple supply**  
The power supply is 230V AC
- **isolated output**  
Signal input and output are galvanically isolated.
- **cost-effective**  
The SOUNDLIGHT 3401B-H is a cost-effective solution for many purposes.

## GENERAL

Designation: 3401B-H  
Features: isolated DMX512 / DMX RDM line booster

The DMX line booster accepts a standard DMX512 input signal and outputs an amplified, optically isolated signal to drive 32 standard loads. The device performs full signal analysis to achieve bidirectional operation. The 3401B-H is transparent to DMX RDM itself, thus the unit does not show any DMX RDM properties.

## CONNECTORS



## MOUNTING

The 3401B-H is intended for 35mm standard DIN rail installation. Gently clip onto DIN rail. To unlock, use a screwdriver to pull yellow lever.

## SIGNAL INDICATORS

The status of the Line Booster interface is signalled with LED indicators.

green:	operation
red:	ERROR (blinking)
	No error indication while normal operation
	Error blinking at data errors or loss of communication.
yellow:	RDM traffic

## TECHNICAL DATA

Dimensions:	Standard DIN rail housing, width 2 units
Power Supply:	230V AC approx. 2VA
DMX IN:	1 Unit Load
DMX OUT:	32 Unit Load, opto-isolated
Temp range:	0...+50C
Storage Temp:	-20...+80C
Order code:	3401B-H

## DISTURBANCES

If a trouble-free operation cannot be guaranteed, disconnect the decoder interface and secure it against unwanted operation. This is especially necessary, when

- the unit shows visible damages;
- the unit does not operate;
- internal parts are loose;
- interconnection cables show visible damages.

## LIMITED WARRANTY

This instrument is warranted against defects in materials and workmanship for a period of 12 months, 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 accordance with the manual;
- connection to wrong voltage or current;
- misuse.

## CE CONFORMITY



This DMX line booster is microprocessor controlled and uses high frequency (8 MHz quartz). The interface has been tested in our emc lab to comply with EN555015.

Please make sure that shielded data cable is used throughout and the shield is connected properly to the GND pin. Shield must never make contact to other signal lines.

## FCC STATEMENT

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

FCC Caution: Any change or modification to the product not expressly approved by SLH could void the user's authority to operate the device.

## SERVICE

There are no parts within the DMX Line Booster 3401A-EP which require the user's attention. Should your unit require servicing, please send it to the factory, freight paid.

## INTERNET-HOTLINE

Please use our internet domain <http://www.rdm.soundlight.de> for more information regarding DMX RDM. If you have any comments which may be worth considering, please send a message to [info@soundlight.de](mailto:info@soundlight.de). We will check your message and reply accordingly.

## ENVIRONMENTAL NOTICE



When the end of the useful lifetime of this product has been reached, it must be disposed of properly. Electric and electronic devices must not be placed in domestic waste. Contact your local authorities for information about a suitable collection point in your neighbourhood. SOUNDLIGHT is a WEEE registered company (DE58883929).

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