DB-104/DIN DMX Booster MANUAL

Thank you for choosing the DB-104/DIN DMX booster. Please read this user manual carefully and follow the instructions.

FEATURES:

- Four optically and galvanically isolated DMX512 outputs
- DMX input and output have over-voltage and over-current protection
- Input and output via plug-in terminal blocks for quick installation
- Boost and regenerate of DMX signal
- Power LED and incoming signal LED
- DMX driver ICs and Optocouplers are placed in sockets for quick swapping
- Wide power input range 9-24 Volt DC
- DIN rail mounting

INTRODUCTION:

This device receives one DMX512 line and sends four amplified identical DMX lines, each with independent drivers, providing full isolation from the input and other outputs. In the event that a fault occurs on one DMX output, the others will remain operational.

The DMX in and outputs are fitted with over-voltage and over-current protection. This is achieved by fitting a pair of PTC thermistors and transorb surpressor diodes between the output connector and the DMX line drive. A high speed optocoupler provides the optical isolation between the input signal and the DMX line. DC to DC converters are used to provide gavanic isolation between each DMX line.

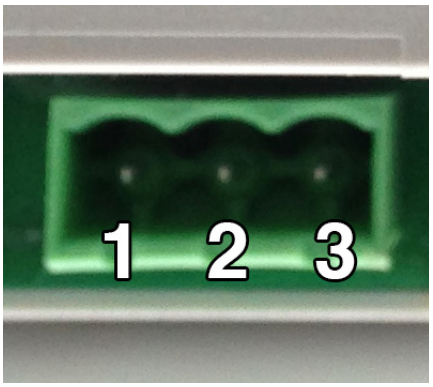
INSTALLATION INSTRUCTIONS:

This device is intended for DIN rail mounting.
Power supply is 9-28VDC. The power supply is protected against reverse polarity.

INPUT & OUTPUT CONNECTORS

The DMX-in connector is connected directly to DMX thru for loop-through to additional boosters. You can run a maximum of 32 units (receiver) per booster output channel.

Connector pin designation is as follows:
Pin1: Signal shield
Pin2: Data Invert (-)
Pin3: Data (+)



SPECIFICATIONS:

Power input 9-24VDC
Fuse(internal) 0.5A TR5
Dimensions (L x B x H)..... 90 x 106 x 58mm
Weight ..... 0.3 KG

OPERATING CONDITIONS:

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture and avoid strong vibrations.

MAINTENANCE:

There are user-serviceable parts inside. All optocouplers (6N137) and DMX drivers (SN75176BP) are fitted in IC sockets and can easily be swapped. Before opening the device, always disconnect it from its power supply.

TROUBLESHOOT:

Check fuse if the device fails to function.
Problems may be caused by faulthy cables, wrong pin-layout or extremely long cable lengths.

SAFETY

Do not apply power source before all equipment is installed and completely connected.
For replacement use fuses of same type and rating only.

RECOMMENDATIONS:

For error-free data transmission make use of dedicated DMX cables and
do not use microphone cables. Use a terminator on the last fixture that receives DMX.