MA Optoisolator Box

The MA Optoisolator Box provides optical galvanic separation of DMX 512 (1990) input and output signal. Current boost is also provided allowing for long cable runs. In addition, the isolation also provides ground loop and shock hazard protection.

FEATURES:

DMX IN: Overvoltage protected DMX input
OUTPUTS: Optically isolated amplified output
The DMX output is overvoltage protected

ERROR HANDLING:

Check fuse if the Optoisolator Box fails to function.

ERRORS may be caused by:
- Contact problems with cables and connectors
- Short circuit and/or wrong pin layout
- Lack of cable shield or missing data input
- Incorrect cable or extremely long cable

TECHNICAL DATA:

Mains supply: 230 VAC / 50 Hz or 110 VAC / 60 Hz (factory setting)
Signal input/output: USITT DMX 512 (1990) via 5POL XLR (male)
Pin layout:
- Pin 1 = ground
- Pin 2 = data -
- Pin 3 = data +
Unit dimensions: W x H x D (mm): 80 x 55 x 150
Weight: 1,0 lb. (0,5 kg)

Made in Germany
Safety Instructions:

1. Read all the instructions in the user manual.
2. Keep the user manual for later use.
3. Follow all the instructions on the unit.
4. Pull the plug before cleaning the unit; do not use any liquid or spray cleanser. Clean with a damp cloth.
5. Do not use the unit near water.
6. Do not put the unit on unstable tables etc. It might fall down and get damaged.
7. There are slots in the case for ventilation; do not cover these slots up because they guarantee the reliable use of the unit and protect it against overheating. Do not install the unit into a frame unless sufficient ventilation is guaranteed.
8. Do not put any objects on the wire and make sure nobody steps on it.
9. In case you use an extension wire make sure the sum of the power consumption of the connected units does not exceed the maximum power of the wire. The sum of the units plugged in the socket should not exceed 10 Ampere.
10. Do not spill any liquid over the unit. Do not put any objects through the slots of the unit, as these might get in contact with parts that are live or might cause short circuits. This may cause fires and shocks.
11. Do not service the unit yourself as parts that are live might be exposed when you open the case; you run the risk of getting shocked. All services should only be carried out by a specialist.
12. If one of the following conditions occurs, please pull the plug out and call the service:
   A. Wire or plug is damaged or worn.
   B. Liquid got into the unit.
   C. The unit was exposed to rain or got damp.
   D. The unit does not work properly even if you follow the instructions of the user manual.
   E. The unit fell down and the case was damaged.
13. Only use wires which are marked safety proof.

DECLARATION OF CONFORMITY

according to guidelines 89/336 EWG and 92/31 EWG:

Name of producer: MA Lighting Technology GmbH
Address of producer: Dachdeckerstr. 16         D-97297 Waldbüttelbrunn

declares that the product
Name of product: MA Optoisolator Box
Type: MA Optoisolator Box
answers the following product specifications:
Safety: EN60065, VDE0860, IEC65
EMV (EMC): EN55103-1(E1), EN50081-1
                          EN55103-2(E2), EN50082-1

Additional information: All DMX512 inputs and outputs must be shielded and the shielding must be connected to the ground of the corresponding plug.

Waldbüttelbrunn, 17.01.1995

Dipl. Ing. Michael Adenau