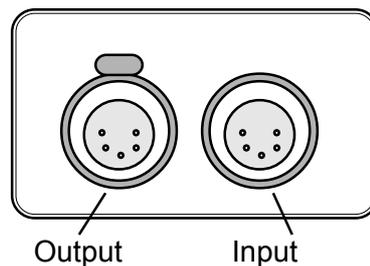


## MA Optoisolator Box

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 pinlayout  
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.

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**DECLARATION OF CONFORMITY** according to guide lines 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