

Functional Overview

MR-ZJ61WH signal amplifier is used to shape and amplify DMX512 signals after attenuation during long-distance transmission, which has the function of extending the signal transmission distance.

The signal amplifier uses full isolation protection technology between the input and output ends of the signal port, thus avoiding the high voltage that may be generated when the control line and other equipment fail to burn out the precision components, ensuring its safe operation. It can not only protect the controller in the application, but also ensure that the DMX signal can be transmitted normally to various lighting equipment, thus improving the reliability and stability of the entire control system.

The MR-ZJ61WH signal amplifier has an addressing line and supports addressing line isolation protection function, which can effectively protect lamps and controllers and other equipment in the data line and improve the addressing success rate of DMX512 lamps.

DMX512 Signal Signal Amplifier MR-ZJ61WH Amplifier is mainly applied between DMX512 controller and the first DMX512 fixture, and its installation position should be close to the first fixture, with a distance of no more than 2 metres.

In the signal cascade chain of DMX512 fixtures, according to the general principle, for every 32 DMX512 fixtures, a set of MR-ZJ61WH signal amplifier needs to be added.

Technical parameters

- Product Specifications: Fully isolated amplifier (one input and one output)
- Signal Type: USITTDMX512/1990 protocol and extended DMX protocol
- Equipment Function: Reshaping and amplification after long-distance transmission attenuation, shielding interference signals
- ◆ Baud Rate: 250Khz-1Mhz
- IP Protection Grade: IP65
- The device port has over-current and over-voltage protection, so that the device can operate safely and reliably for a long time
- Surge Protection: 1.5KV
- ◆ Supports severe working environment -40°C-80°C, and operates normally without trouble





- Output voltage: DC6V~48V
- ◆ Rated power: ≤2W
- Signal isolation type: full magnetic coupling isolation
- Addressing isolation type: full magnetic coupling isolation
- Input terminal definition: Ground, Data + (A), Data (B), Addressing input (Win)
- Output terminal definition: ground, data + (A), data (B), addressing output (Wout)
- ◆ Supports severe working environment -40°C-80°C, and operates normally without trouble
- The ports are equipped with over-current and over-voltage protection, so that the equipment can operate safely and reliably for a long time

Wiring Definition



① DXM512 signal input terminal

2) DMX512 signal output terminal (3) Power supply interface (DC6~48V)

The wiring is defined as:

Signal Input (Left)

Ground: GND-Yellow

Data + : A - Red

Data - : B - Black

Address Input: Win - Green

Signal Output (Right)

Ground: GND-Yellow

Data + : A - Red

Data - : B - Black

Address Ootput: Win - Green

Power Input (Right)

DC +: V - Blue

DC -: V - Brown

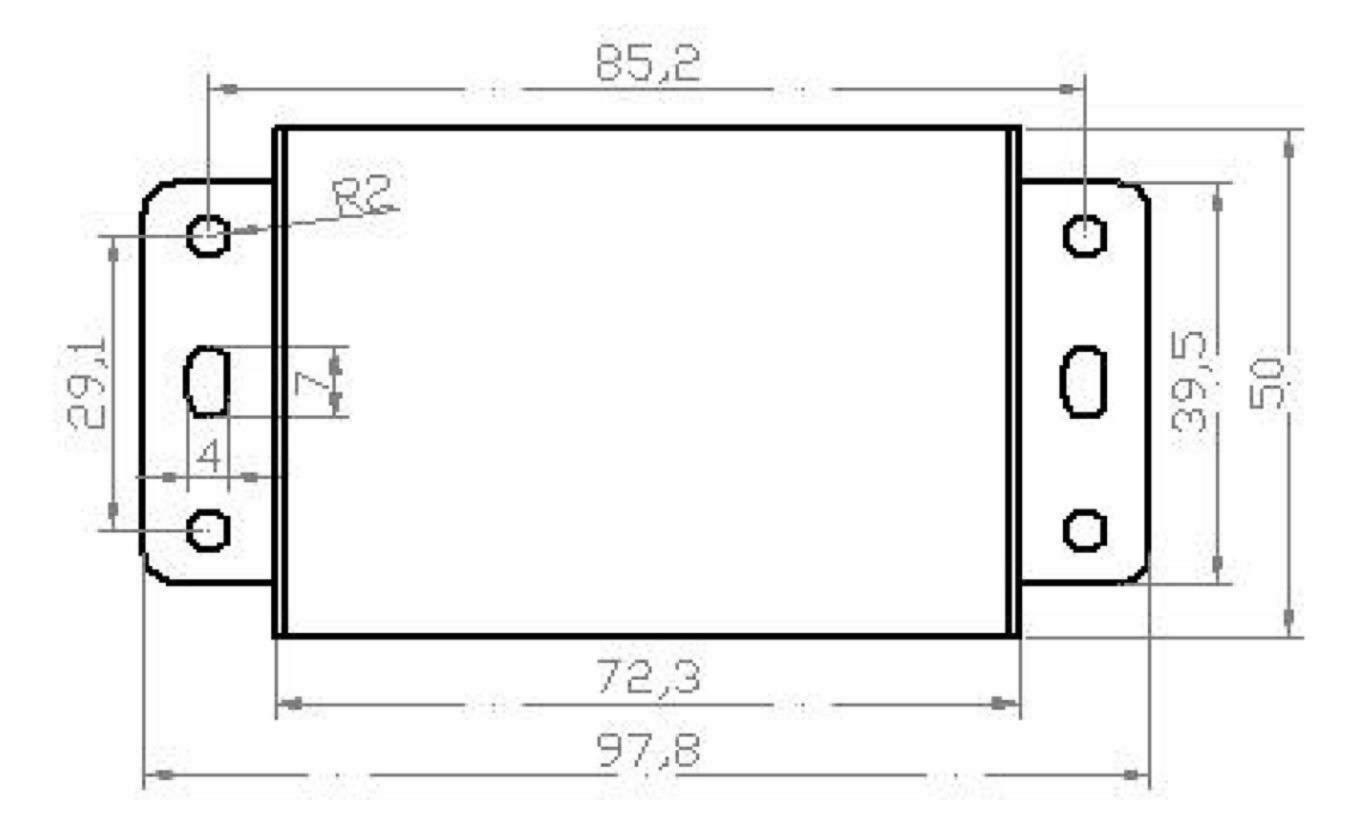




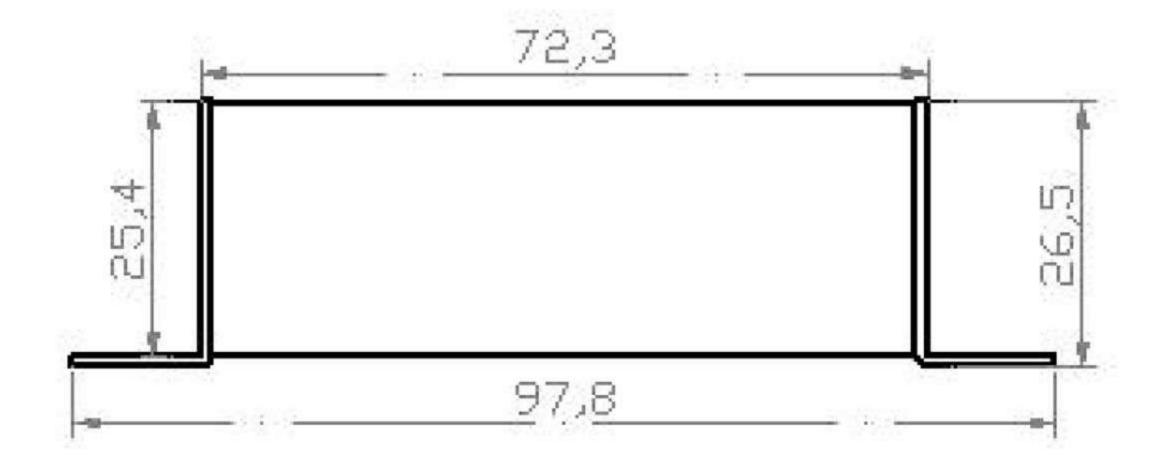


Standard Sizes

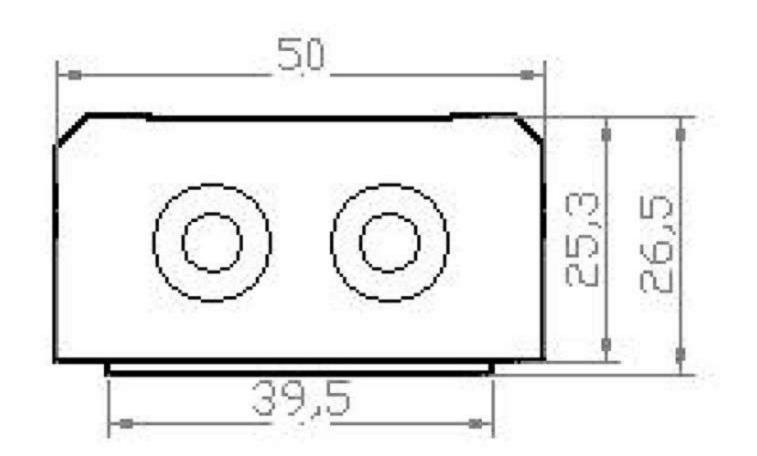
MR-ZJ61WH signal amplifier top view:



MR-ZJ61WH signal amplifier side view:

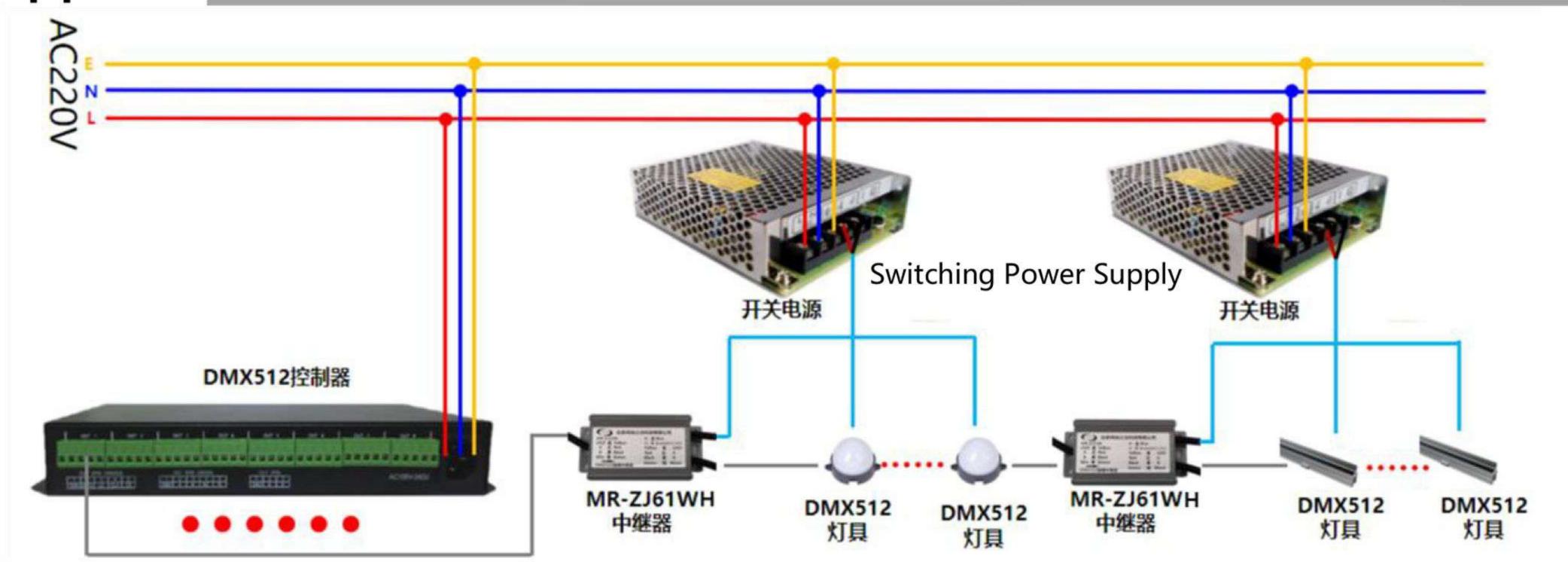


MR-ZJ61WH signal amplifier left view::



Unit: mm (the above dimensions are measured manually, there may be slight errors)

Application Mode



In the use of MR-ZJ61WH signal amplifier, the input and output are fully isolated by the

signal port, so the wiring must not connect the ground (GND1) of the input to the ground (GND2)

of the output.



