

DMX Signal Amplifier

Model No.: DA

2 Channel/Photo-electricity insulation/Din Rail

Features

- One DMX512 signal input, two DMX512 signal output.
- Dedicated to amplify, distribute and insulate the signal that comes from the lighting system equipment when it is connected to the bus of DMX512 (or RS-485).
- Realize extending the signal transmission distance.
- Signals expansion output control, increase DMX (485) signal amplifier to distribute multi-channel control.
- Photo-electricity insulation between input and output terminals, output terminals among channels, so as to avoid the expensive equipment such as light, 485 communications equipment, DMX driver, precise digital lighting controller, being burnt by the possible high voltage which caused from the wrong wire connection and a broken equipment, also can avoid the signal interference between each DMX equipment.
- Available in white or black.



CE RoHS LVD

Technical Parameters

Input and Output	
Input voltage	12-36VDC
Input current	0.5A Max.
Input signal	DMX512
Output signal	DMX512 x 2

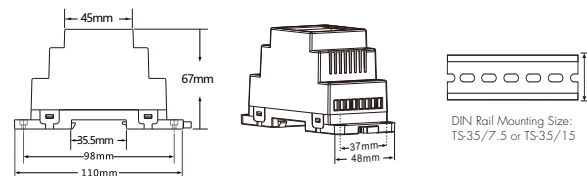
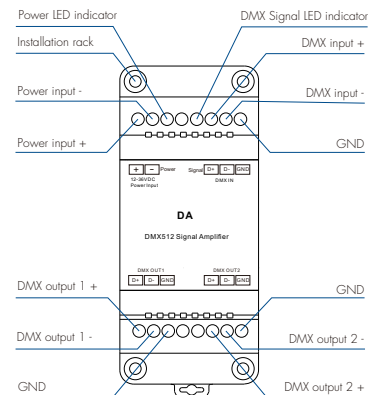
Environment	
Operation temperature	Ta: -30℃ ~ +55℃
Case temperature (Max.)	Tc: +65℃
IP rating	IP20

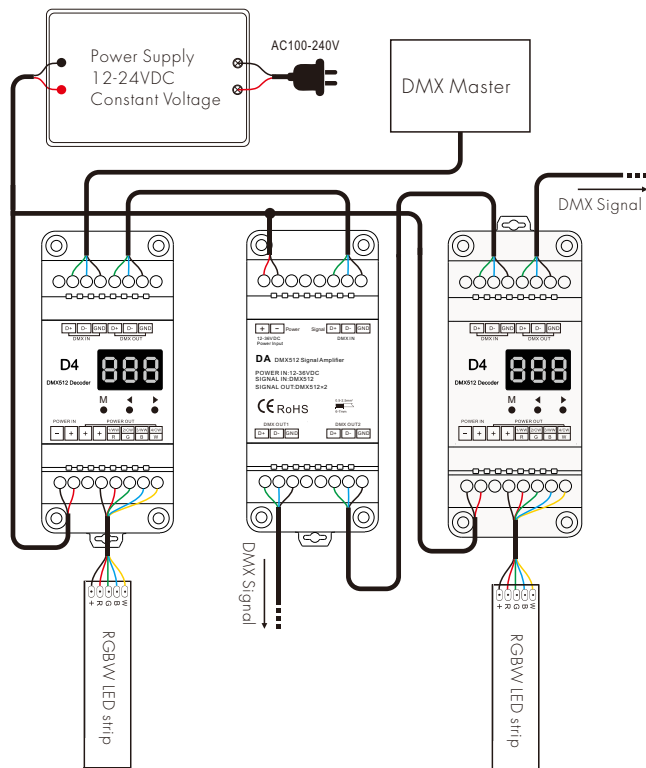
Safety and EMC	
EMC standard [EMC]	EN55032:2015, EN61000-3-2:2014, EN61000-3-2:2013, EN55024 :2010/A1:2015
Safety standard [LVD]	EN 61347-1:2015 EN 61347-2-11:2015
Certification	CE, EMC, LVD

Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

Weight	
Net weight	0.095kg
Gross weight	0.125kg

Mechanical Structures and Installations





1. An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.
2. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

The diagram illustrates a DMX signal chain. At the top left, a blue box labeled "DMX Master" has a "DMX IN" output. This output is connected to a "DMX Led Wall Washer" (represented by a grey rectangle with 12 pins). The signal continues through two more "DMX Led Wall Washer" units, indicated by ellipses. The output of this chain is labeled "Input 12-24VDC". This input is connected to a green box labeled "DA" (DMX Signal Amplifier). The "DA" has a "DMX OUT1" output, which is connected to another "DMX Led Wall Washer". This is followed by two more "DMX Led Wall Washer" units, indicated by ellipses. The output of this second chain is labeled "DMX OUT1". Both the "DMX Led Wall Washer" units and the "DA" are connected to a "Power Supply" (indicated by three dots).

The diagram illustrates two wiring topologies for a DMX-controlled lighting system. In the top topology, a DMX Master is connected to a DA (DMX Signal Amplifier) via a 150m cable. The DA then distributes the signal to three DMX Led Wall Washers. In the bottom topology, three DMX Led Wall Washers are connected to a DA via 150m cables, which then connects to a DMX Master. Both configurations include a Power Supply connected to the DA and the wall washers.

The diagram illustrates the connection of a DMX Master to multiple DMX Led Wall Washers. A blue box labeled "DMX Master" has a "DMX IN" output that connects to the "DMX IN" port of a green box labeled "DA (DMX Signal Amplifier)". The DA is powered by a "12-24VDC Power Supply". The DA outputs DMX signals to multiple DMX Led Wall Washers, which are also powered by a "12-24VDC Power Supply".