LDT-DMX-REP-2OUT

Optically Isolated Two-Output DMX Signal Amplifier

Distribute or extend a DMX/RS-485 control line through two optically isolated outputs. This interface repeats data; it does not decode LED channel values or supply lighting power.

Supply voltage	12-48 VDC
Input signal	1 x DMX512 / RS-485
Output type	2 optically isolated DMX512 signal outputs
Maximum input current	0.5 A
Isolation	Input-to-output and output-to-output optoelectronic isolation
Recommended chain limit	Signal amplification no more than 5 times continuously
DMX line termination	90-120 ohm, 0.25 W at line end when required by the guide
Operating temperature	-30 to +55 °C
Maximum case temperature	+65 °C
IP rating	IP20
Body dimensions	175 x 45 x 27 mm

Two signal branches do not create two independent DMX universes. The stated 0.5 A is maximum supply input current, not a load-output rating.

The following reference pages include the complete wiring, dimensions, settings and operating instructions. Use the lighting and hardware variant identified above; shared references may illustrate other separate models.

DMX512

DMX Signal Amplifier

- 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.



CE RoHS emc RED

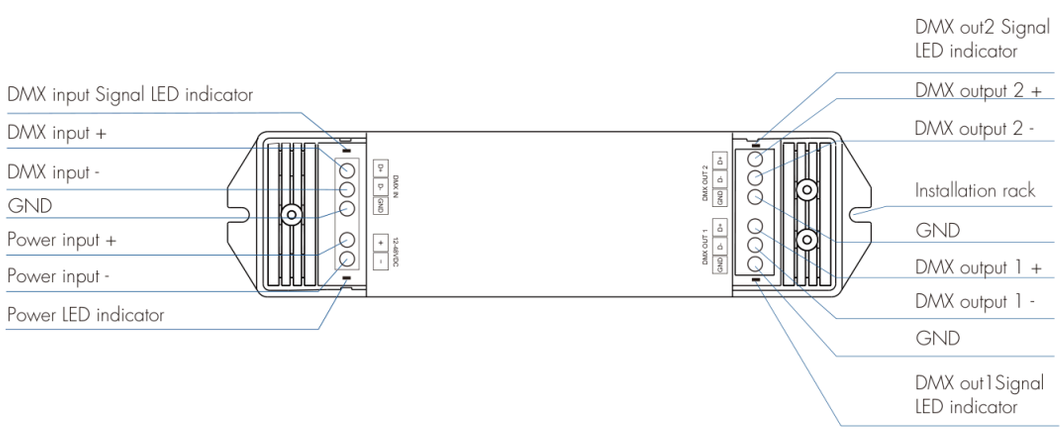
Technical Parameters

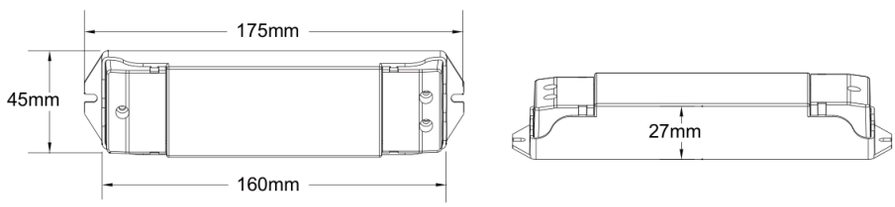
Input and Output	
Input voltage	12-48VDC
Input current	0.5A Max.
Input signal	DMX512
Output signal	DMX512 x 2
Warranty	
Warranty	5 years
Protection	Reverse Polarity

Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +65°C
IP rating	IP20
Package	
Size	L178 x W50 x H38mm
Gross weight	0.125kg

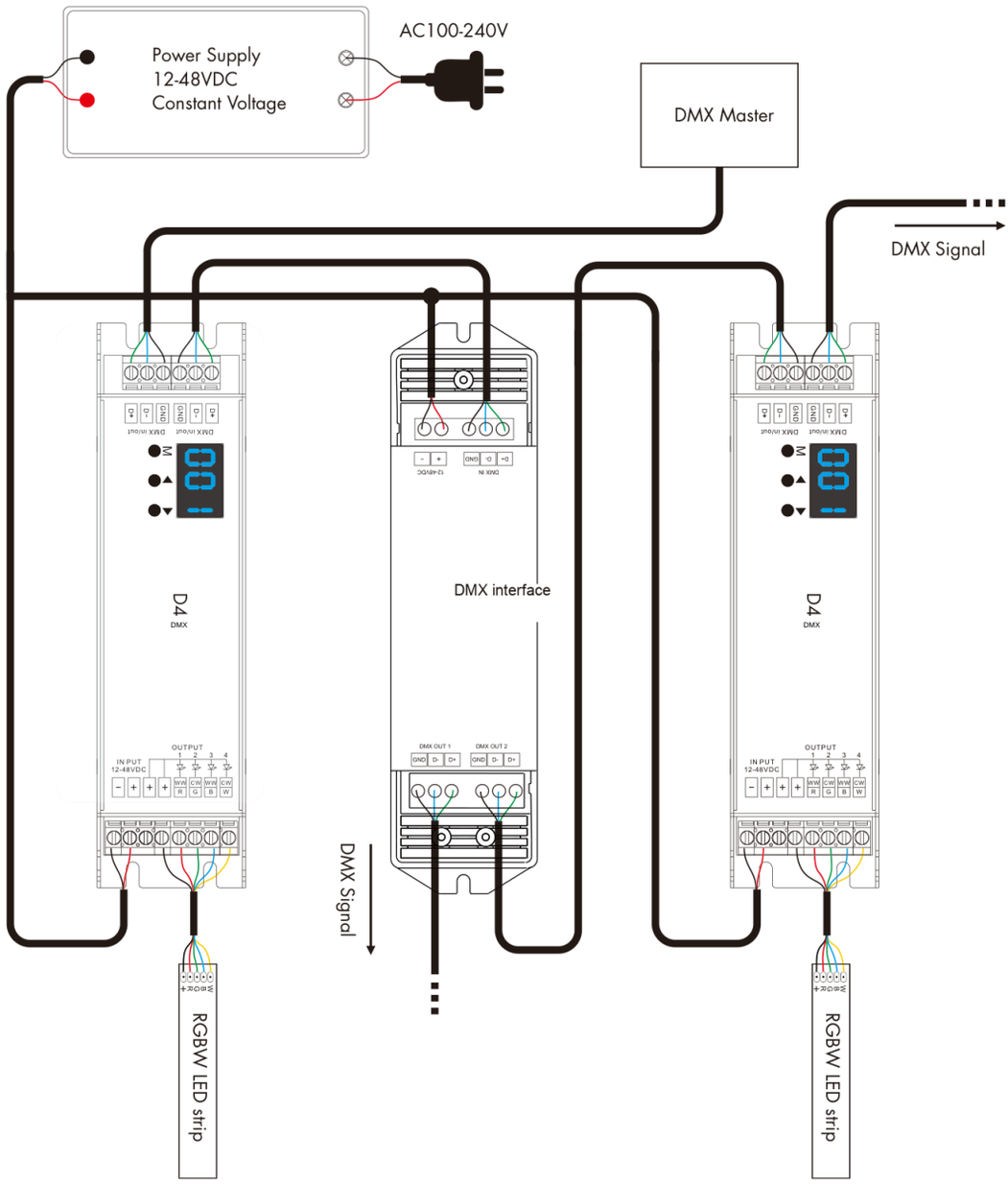
Safety and EMC	
EMC standard(EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard	EN 61348-1:2015+A1:2021 EN 61348-2-13:2014+A1:2017
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE, EMC, RED

Mechanical Structures and Installations





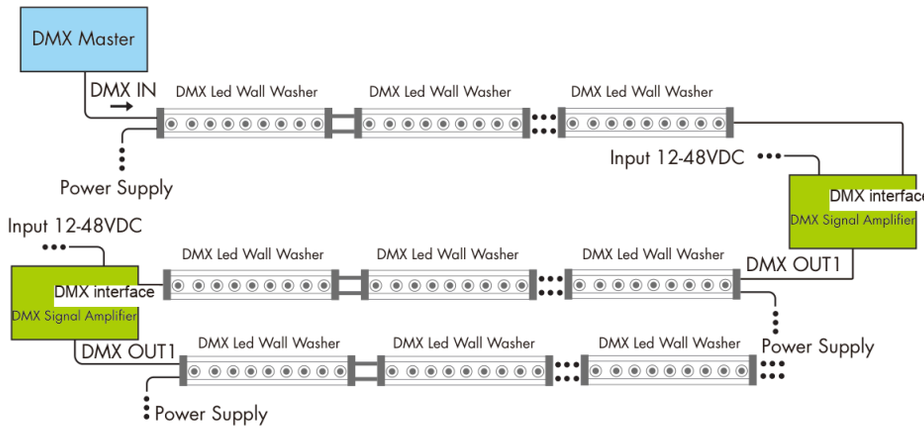
Wiring Diagram



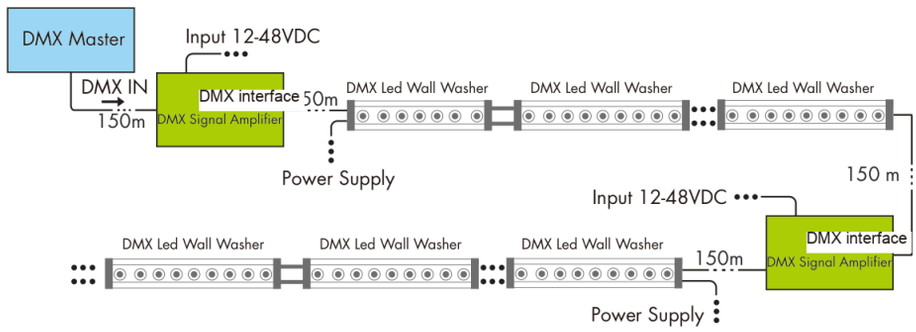
Note:

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.

A. The signal of many of DMX LED lights connection example:



B. The long distance of DMX signal example:



C. The distribution of DMX signal example:

