CUSTOMER	PROJECT	DATE
TYPE	QTY	PO #

LS-CON-AMP-DMX512-3S

DMX512 signal amplifier / splitter · 1 input, 3 isolated outputs · 12 VDC



Description

Signal amplifier and splitter for DMX512 lighting networks. It reshapes a DMX512 signal weakened by long cable runs and distributes it across three independent outputs, extending the bus and multiplying control lines.

Photoelectric isolation of more than 3 kV separates the input from the outputs, and each output from the others: a wiring error or faulty device on one line cannot damage the controller, DMX drivers or other equipment, and crosstalk between lines is prevented.

Key features

- Reshapes the DMX512 signal over long distances
- 1 input · 3 amplified outputs · 1 DMX OUT
- > 3 kV isolation input-to-output and between outputs
- Screw terminal and 3-pin XLR on every port

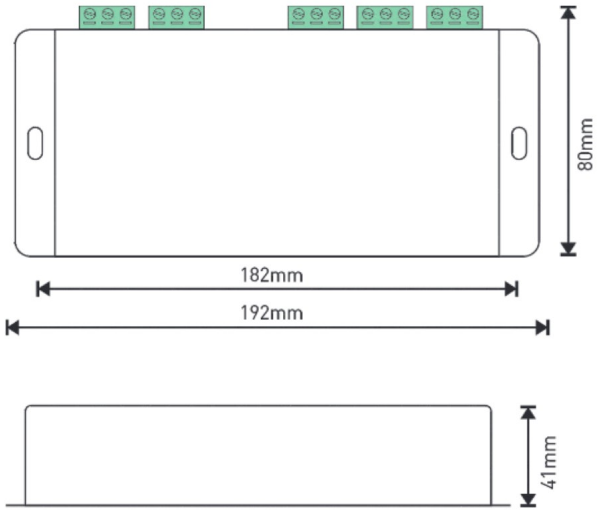
Specifications

POWER	
Supply voltage	12 VDC
Indicator	Indicator light
SIGNAL	
Protocol	DMX512
Input	1 × DMX IN
Outputs	3 × amplified outputs (OUT1 to OUT3) · 1 × DMX OUT
Isolation	Photoelectric, > 3 kV (input ↔ outputs and between outputs)
Connectors	Screw terminal A · B · G (side A) · 3-pin XLR (side B)
MECHANICAL	
Dimensions (L × W × H)	192 × 80 × 41 mm
Mounting hole spacing	182 mm
DURABILITY	
Warranty	5 years

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Dimensions

Dimensions in millimetres



Top and side views · 192 × 80 × 41 mm

HOUSING	
Overall length	192 mm
Mounting hole spacing	182 mm
Width	80 mm
Height	41 mm
Mounting	2 slotted holes

Connections

Side A · screw terminals

DMX IN	DMX OUT	OUT1	OUT2	OUT3
A B G	A B G	A B G	A B G	A B G
DMX input	DMX output	Amplified output 1	Amplified output 2	Amplified output 3

Side B · 3-pin XLR

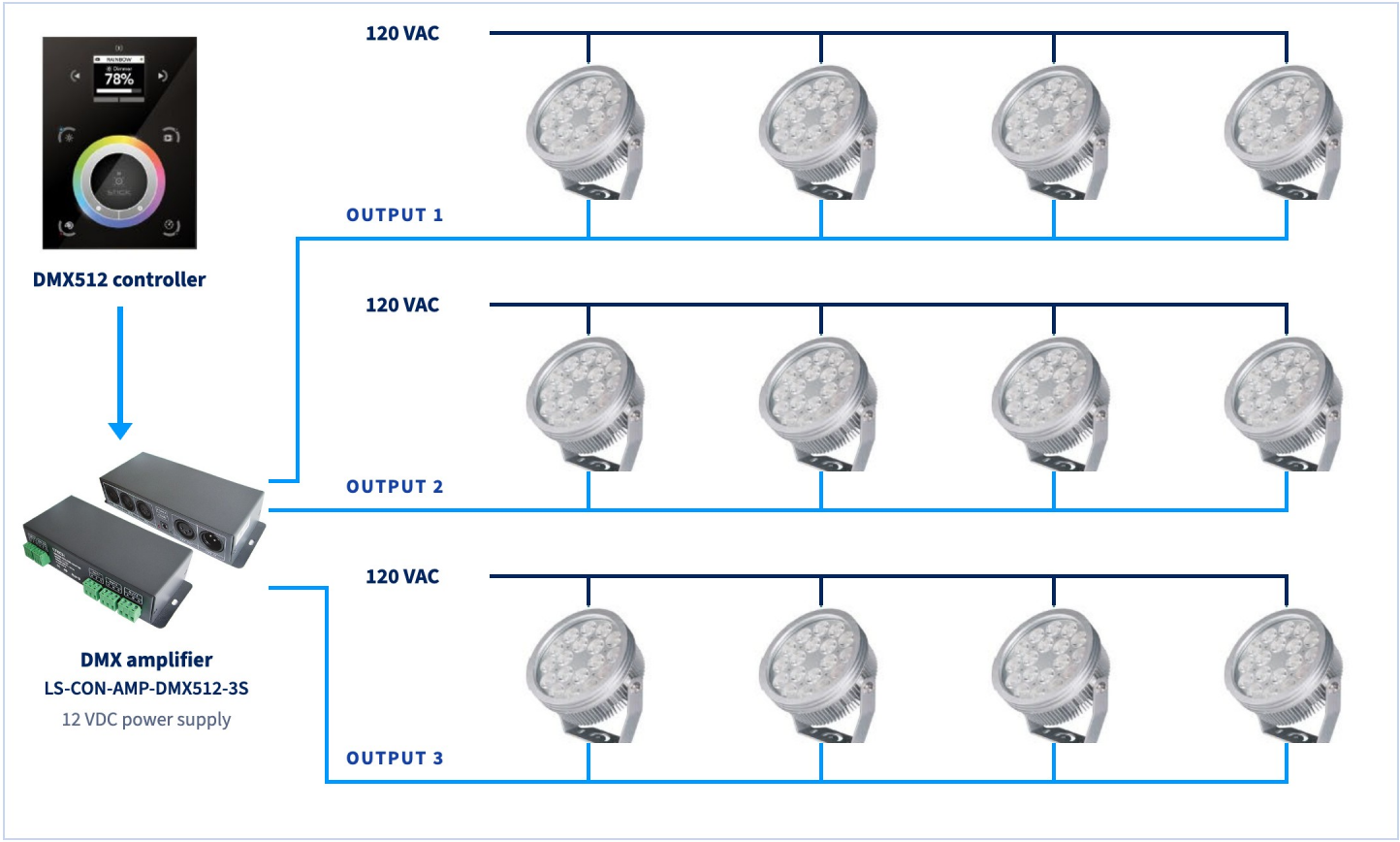


OUT3	OUT2	OUT1	POWER	DMX OUT	DMX IN
Amplified output 3	Amplified output 2	Amplified output 1	Indicator · 12 VDC input	DMX output	DMX input

Note — Every port is available as a screw terminal (side A) and a 3-pin XLR (side B): use either one to suit the project wiring. Terminal: G = ground.

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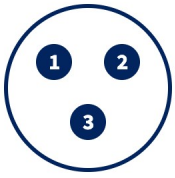
Installation — DMX512 signal distribution



DMX512 signal (fixtures daisy-chained, DMX IN → DMX OUT) — Fixture power

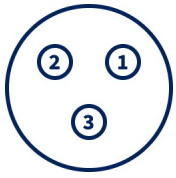
Note — Each amplified output drives its own DMX line, isolated from the others: a fault on one line does not affect the controller or the other two lines.

DMX512 pinout (3-pin XLR)



DMX IN

Male XLR · front view



DMX OUT · OUT1 to OUT3

Female XLR · front view

PIN	SIGNAL	FUNCTION
1	**Ground (GND)**	Common / shield
2	**DMX − (Data −)**	Inverted data signal
3	**DMX + (Data +)**	Data signal