DMXSplit

Operator Manual

Version 1.2

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1.0 DESCRIPTION

The LSC Lighting Systems' Active Data Splitter is a fully self-contained data repeater, which accepts an RS422/RS485 (DMX512 type data levels), input and drives four similar outputs. The input is completely isolated from the four outputs by means of an opto-coupler in the data path and separate power supply for the input stage. Input, output and mains grounds are all separate.

The unit is mains powered by an IEC type connector. A voltage selector switch selects between 120 and 240 Volt operation. Power on indication is by a red LED on the top cover.

Data input is on the rear panel and is a 5 pin XLR male connector. A green "data" LED on the top cover glows when the unit is receiving data. The input line can be terminated or unterminated by a switch selection on the top cover. It is recommended that if the DMX Splitter is the last DMX device on the cable run then position the switch in the terminated position. Likewise if there are more DMX devices down stream of the DMX Splitter then select unterminated position.

Data is input via a male XLR connector. An unbuffered data output is located next to the input and is to be used for daisy chaining multiple DMX units together. Four separate circuits drive four outputs via 5 pin XLR female connectors mounted on the front panel.

The housing is a zinc steel one piece chassis with "U" section top cover. The chassis is powdercoated grey and the top panel is black. A right angle bracket is supplied in order to mount a standard theatre hook clamp. This will allow the unit to be hung from a truss. The bracket is supplied bolted to the left edge of the top cover but recessed and hidden. To use the bracket, remove the 2 screws, remove the bracket and position as shown in diagram 1. Replace the screws and tighten. Ensure that the internal tooth washers are used. A hook clamp can now be attached to the bracket. A hole for a safety chain is also available on the mounting bracket.

2.0 Specifications

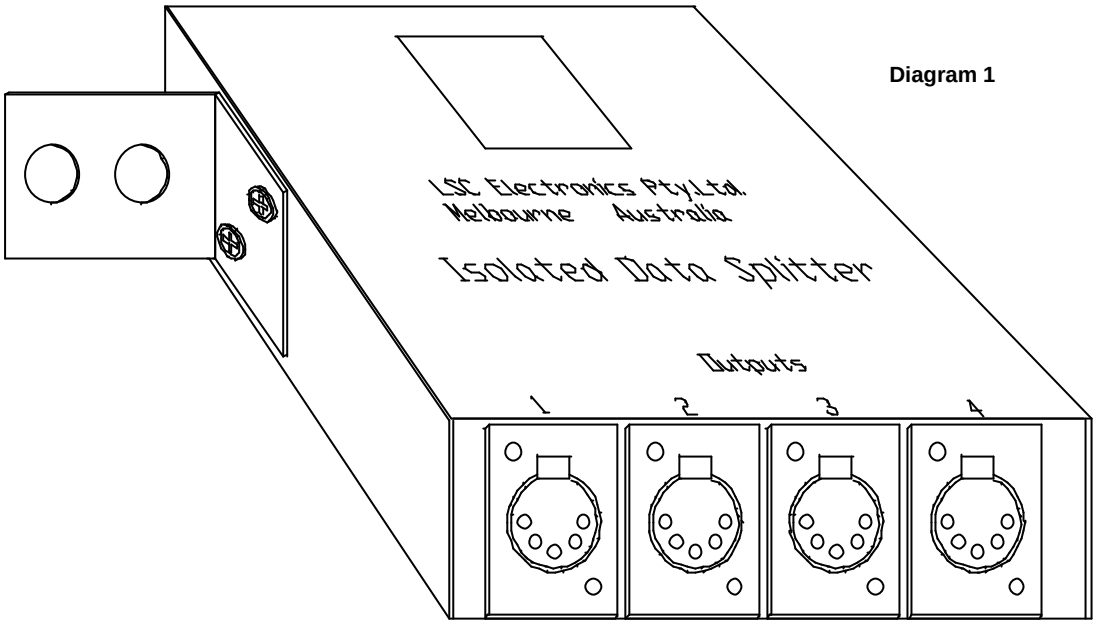

Diagram 1

Mains Supply:	120/240 VAC 50/60 Hz
Protection:	250mA Fuse
Input data:	1 x RS422/RS485 balanced/differential data suitable for DMX512 and AVAB
Output data:	4 x RS422/RS485 balanced/differential data suitable for DMX512 and AVAB
Short circuit:	Output circuit current limited to 250mA max.
Input terminator:	120ohm across +ve and -ve data lines when selected.
Isolation:	Separate secondary power supply for input and output stages.
Opto-isolator:	Between input and output data paths.
Data speed:	250Kbit/s (tested) 5Mbit/s (un-tested)
Dimensions:	192mm x 138mm x 41mm
Weight:	1kg.