

# DMX SPLITTER 4 CHANNEL

DMX-SPLITTER

One into four DMX/RDM splitter  
and signal repeater

Increases the maximum DMX  
devices on a network by 4X



Up to four DMX-SPLITTERS per  
DMX network

Works with DMX-DLI-GW  
Gateway for a full universe of  
DMX control

## DESCRIPTION

The Vantage DMX-SPLITTER is a repeater that divides and regenerates the DMX/RDM input signal into four output channels. It is used with DMX controlled lighting systems when the maximum of 32 devices per bus run is exceeded. In this way, more devices can be added to a DMX network without adding a new DMX-DALI controller. In addition to DMX, the DMX-SPLITTER also distributes RDM messages for devices that use RDM.

## OPERATION

The DMX-SPLITTER requires a 12-48VDC power supply for operation and can be installed into a LS-E8 or LS-E12 DIN rail enclosure. Each of the four output channels is completely isolated from the input channel and each output channel has an independent driver to amplify the DMX/RDM signal. In this way the DMX/RDM signal is not compromised when split. A total of three splitters additionally can be added to a DMX system by using the "DMX THRU" connections. The splitter processor regenerates DMX/RDM messages and distributes them through the DMX THRU connection.

## HIGHLIGHTS

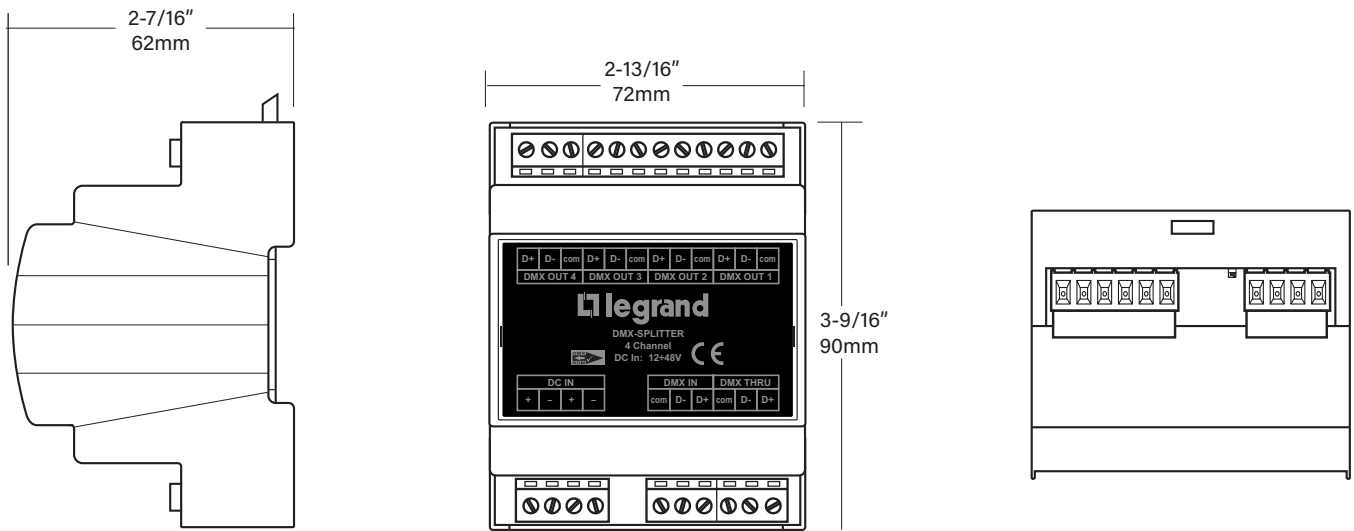
The DMX-SPLITTER is used to split up a DMX bus into multiple parallel buses. A single bus can have up to 32 unit loads. A splitter allows for more than 32 devices to exist as part of the same universe.

## APPLICATIONS

Use the DMX-SPLITTER for DMX installations that require more than 32 devices on the DMX network. A total of three other DMX splitters can be connected allowing for up to 512 devices on a DMX network (including the splitters) - 4 splitters x 4 outputs x 32 devices. Once the number of logical addresses have been exceeded by the DMX-DALI gateway (one Universe or 512), a new gateway is added and a new DMX network is created.

PROJECT		LOCATION/ TYPE	
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MULTI-VIEW LINE DRAWING



FEATURES

- One into four DMX splitter with repeater and signal regeneration features
- Up to four DMX-SPLITTERS per DMX bus
- Passes both DMX and RDM signals
- Inputs and outputs are electronically isolated for clear communication pathways
- 32 bit ARM processor
- Extended temperature range (14°F to 113°F)
- 5 x Bus DMX512/RDM
  - NSC, SIP, RDM
  - Functional insulation between input and output channels
  - Bi-directional data communication
  - Signal regeneration
- 5 year warranty

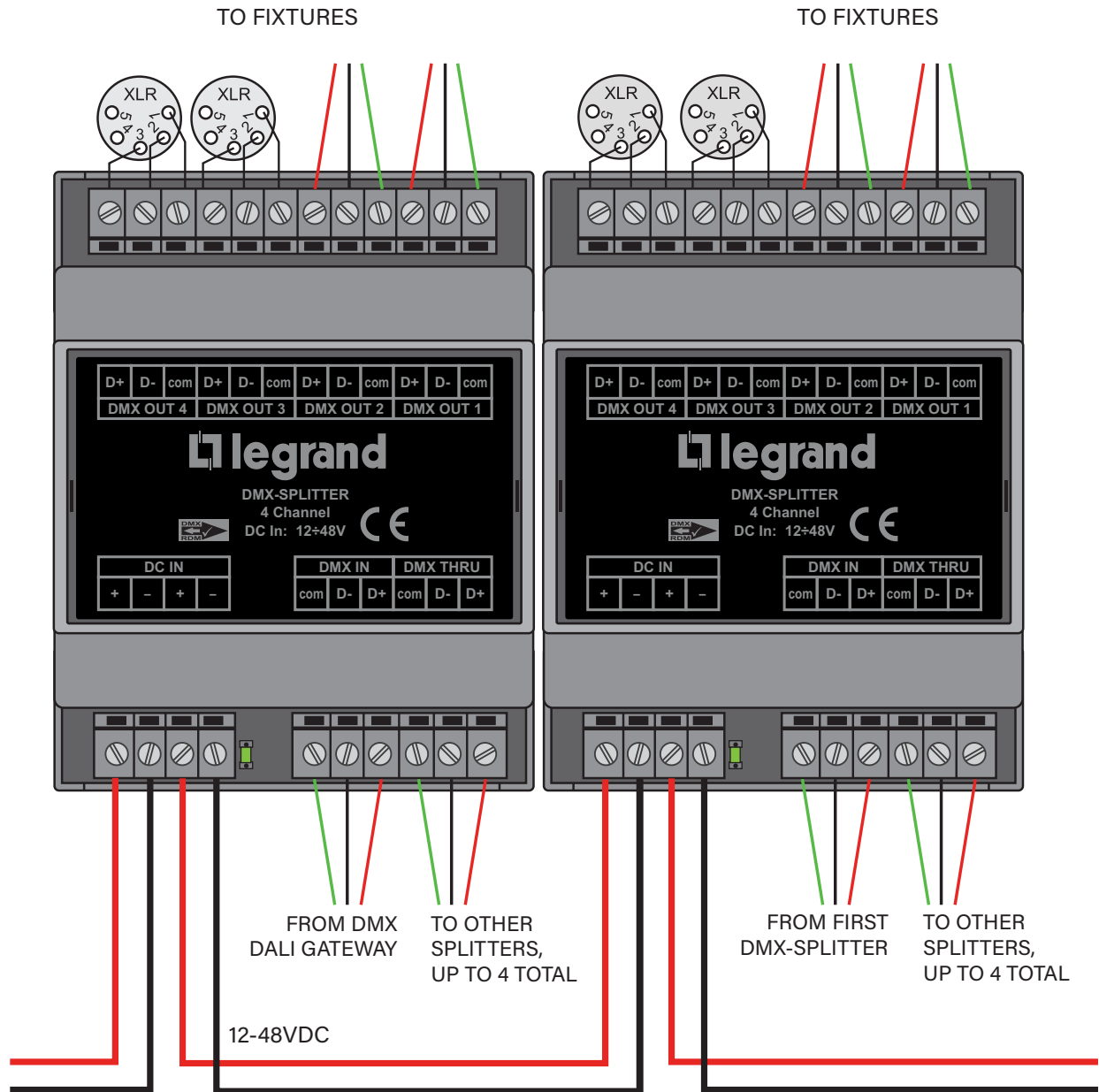
SPECIFICATIONS

IEC 61547:	Equipment for general lighting purposes - EMC immunity requirements
ANSI E1.11:	Entertainment technology - USITT DMX512-A
Asynchronous Serial Digital Data Transmission:	Standard for controlling lighting equipment and accessories
ANSI E1.20:	Entertainment technology - RDM Remote device management over USITT DMX512 Networks
Supply Voltage:	12-48VDC
Storage Temperature:	-40° - 140° F (-40 - 60°C)
Operating Temperature:	14° - 113° F (-10 - 45°C)
Wiring:	2.5mm <sup>2</sup> solid - 1.5mm <sup>2</sup> stranded - 30/12 AWG
Mechanical Dimensions:	2.8 x 3.6 x 2.4 in (72 x 92 x 62 mm) - DIN RAIL 4mod.
Packaging Dimensions:	4.8 x 3.3 x 2.8 in (124 x 85 x 71 mm)
Weight:	4.4 oz (125g)
DMX:	512 slots NSC, SIP, RDM, Max units: 32 standard, open fail safe - short fail safe
Certifications:	CE

Supply Voltage	Minimum	Typical (DMX input, 4 x 120 ohm load outputs)	Maximum
@120VDC 210mA	210mA (2.52W)	320mA (3.84W)	500mA
@24VDC 115mA	115mA (2.76W)	160mA (3.84W)	
@48VDC 60mA	60mA (2.88W)	80mA (3.84W)	

WIRING DIAGRAM

MULTIPLE SPLITTERS WITH XLR OR FIXED WIRE CONNECTION



ORDERING INFORMATION

Catalog #	Description	Voltage/Dimensions
<input type="checkbox"/> DMX-SPLITTER	1 x 4 DMX Splitter/Repeater	
<input type="checkbox"/> ACPDXXSM-2	24V DIN Rail Power Supply	Input 90-264VAC, Output 60W @ 24V
<input type="checkbox"/> LS-8E	DIN Enclosure, Single Rail	8" x 8" x 4" (203.2mm x 203.2mm x 101.6mm)
<input type="checkbox"/> LS-E12	DIN Enclosure, Double Rail	12" x 12" x 4" (304.8mm x 304.8mm x 101.6mm)