

Rail-Switch User Guide

(Version 2)

In theatre, touring and architectural applications there are invariably some devices that do not provide a useful form of remote control.

Rail-Switch is an elegant solution to the automation of these devices. Housed in a high impact DIN Rail mounting case, Rail-Switch provides six mains voltage relays with DMX512 and RDM (Remote Device Management) Draft V1.0 support.

The RDM interface allows the start address to be set by the console over the DMX512 cable. RDM also allows the product to receive firmware upgrades and run diagnostics tests. All of these parameters can be set using any of the following products: Net-Lynx OP, Ether-Lynx or Jump-Start.

Specification:

Input Voltage:	5V DC
Internal Fuse:	2A Slow Blow 20mm
Duty Cycle:	80%
Relay Specs:	240V 8A Rated (<i>please see safety warning</i>)
Dimensions:	W:88 H:90 D:58mm
Mounting:	DIN Rail or surface mount
IP:	Indoor use only
Listings:	CE, FCC
Max Wire Size:	2.5mm ²

Power Supply Options: (order separately)

PSU-5-4-FER	
Output:	5V 4A
Input:	Auto-sensing
Max Rail-Splits:	2
Listing:	CE / FCC / UL / PSE

PSU-5-10-FER	
Output:	5V 10A
Input:	Auto-sensing
Max Rail-Splits:	5
Listing:	CE / FCC / UL / PSE



Please read safety warning before using this unit

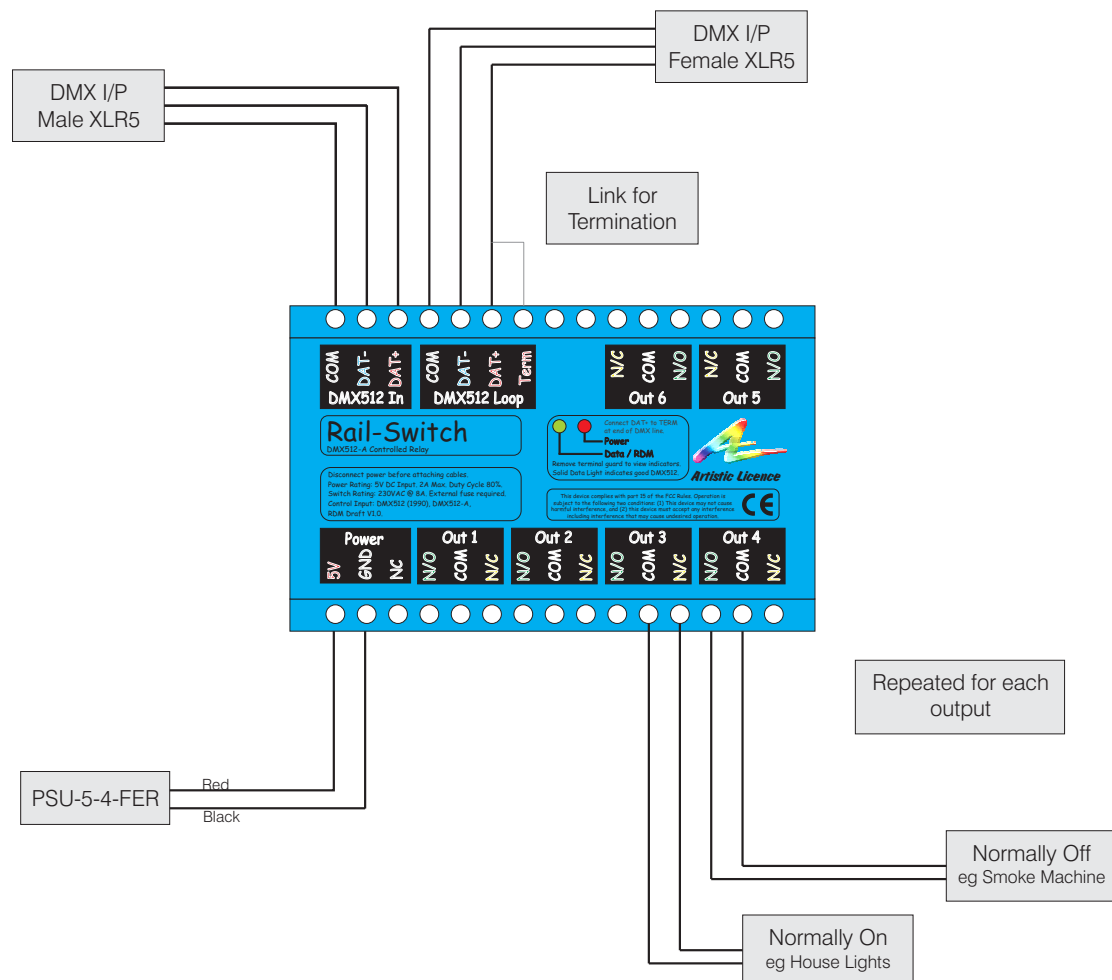
Rail-Switch Operation:

Rail-Switch uses six DMX channels, one channel for each relay. A relay is energised when the level of the relevant DMX512 channel exceeds 50%

There are three terminals for each relay; a common, normally open & normally closed.

- Normally Open: Not connected to common unless the DMX channel goes above 50%
- Normally Closed: Connected to common unless the DMX channel goes above 50%

Rail-Switch Wiring Diagram:

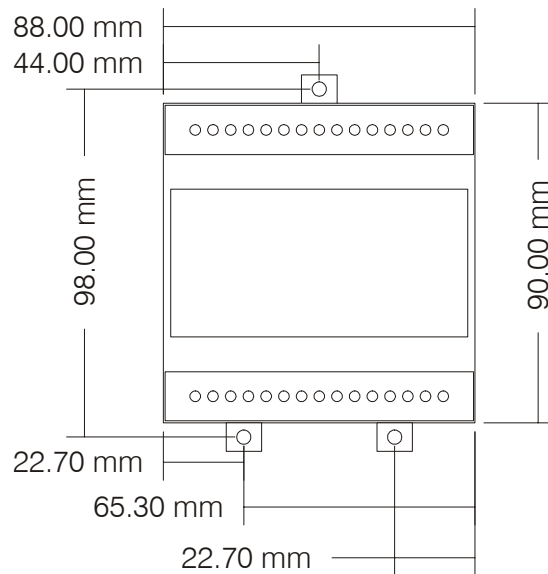


DMX512 Wiring:

XLR Pin	Function	Colour
1	Ground	Black
2	Data -	Blue
3	Data +	Red
4	No Connection	
5	No Connection	

DIN Rail Surface Mounting:

To use the surface mount option push the three bottom tabs out until they click into place. We recommend using an M4 Pan head screw.



Safety Warning:

When Rail-Switch is used for high current or voltages the unit shall be placed within a locked enclosure and shall be connected to the power by a qualified electrician.

All relay connections that are used with high current or voltages shall be externally fused.

This unit has not been designed for domestic use. Proper safety precautions need to be followed when using dangerous voltage or current levels.

The DIN Rail Range:

- ❑ Rail-Split RDM – A fully bi-directional six channel DMX512 splitter and distribution amplifier
- ❑ Rail-Pipe – A six channel intelligent power supply / low voltage dimmer
- ❑ Rail-Switch – Provides six mains voltage relays with DMX512 and RDM Draft V1.0 support
- ❑ Rail-Demux – Provides 16 DMX512 to analogue outputs and RDM Draft V1.0 support
- ❑ Rail-Tran – Provides six Darlington transistor outputs, operation to 50V DC at 450mA, product total 750mA
- ❑ Pixi-Power SB1 – A power and data controller for Pixi-Bulb and Pixi-Strip
- ❑ Rail-DALI – A 256 channel bi-directional DMX / DALI interface

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