

DMX Interface - PWREP DIN P4 NONRDM 4-Way DMX Repeater

Manual

OVERVIEW

Pathway DIN PWREP DIN P4 NONRDM 4-way DMX Repeaters are essential components of DMX512 distribution systems, permitting star-wiring while protecting connected equipment from electrical faults.

The DIN rail-mountable form factor makes installation fast and easy.

CONNECTIONS

The PWREP DIN P4 NONRDM features terminal strips that can be removed from the card to facilitate easy wiring installation or replacement. Make the following connections, **WITH THE POWER TURNED OFF**.

POWER

The module will run on a range from 9 to 30 VDC at 500mA per card connection. Observe the correct polarity when connecting the V+ and V-. A second set of terminals are provided on the connector to daisy-chain power to other DIN modules. The EARTH GROUND terminal must be connected to the enclosure's chassis or electrical ground terminal to improve EMC compliance.

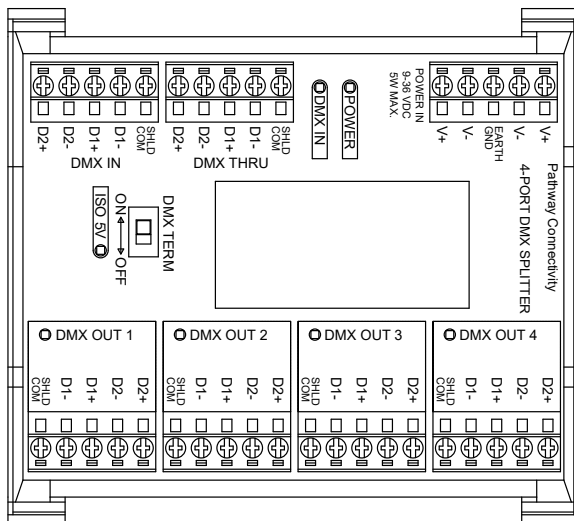
DMX512

DMX connections consist of a shield and data pair. Connect the DATA+ and DATA- wires to D1+ and D1- respectively for each of DMX IN, DMX THRU and DMX OUT. Observe the same polarity convention throughout the system. Connect the cable shield to the SHLD COM terminal.

DMX THRU may be daisy-chained to the DMX IN of other DIN modules. DMX OUT sends the merged signal to the DMX inputs of downstream devices.

DMX REFERENCE

DMX	XLR5 pin	DIN Terminal
Common	1	SHLD/COM
Data -	2	D1-
Data +	3	D1+
Unused	4	N/A
Unused	5	N/A



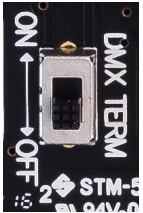
STATUS INDICATORS

- POWER** *Blue.* Glowing steadily indicates power supply OK; off indicates no power.
- DMX IN** *Amber.* Steady glow indicates port latched to active DMX source. Input and Output off on all ports indicates no DMX source.
- DMX OUT** *Green.* Steady glow indicates port is transmitting DMX. Input and Output off on all ports indicates no DMX source.
- ISO 5V** *Red.* Glowing steadily indicates the isolated power supply for the outputs is OK.

DMX TERMINATE

DMX rules require the last device on a DMX line to be terminated with a 120Ω resistor between pins 2 and 3 to prevent signal reflection. If there is no connection to the DMX THRU terminals, the DMX Terminate switch should be ON.

If there are other devices connected to the DMX THRU terminal, the DMX Terminate switch should be OFF and termination be applied to the final device in the daisy-chain.



ELECTRICAL INFORMATION

- 1500V isolation from DMX input to DMX outputs
- 250V fault protection on DMX ports
- Input operating voltage: 9-30 VDC
- 6W power consumption

PHYSICAL

- 0.5 lbs (0.26 kg)
- 4.5"W x 4"H x 1.85"D (113mm x 103mm x 47mm)
- Operating conditions: 14°F-113°F (-10°C-45°C), 5-95% relative humidity, non-condensing

COMPLIANCE

- ANSI E1.11 DMX512-A R2013
- RoHS 2011/65/EU + A1 2015/863
- CE
- Class 2 Low Voltage