

MODEL:- LRD-V-24V

24V Powered Voltage Repeater 2 Channel



GENERAL DESCRIPTION

The LRD-V-24V is a “Universal” powered, five port isolated voltage repeater that offers up to 1500V isolation between ports. The input power for the LRD-V-24V is not polarity sensitive. Further, the LRD-V-24V may be linked on its input to give a single input and fully isolated dual output device. The LRD-V-24V output voltages are independent of the input impedance. The LRD-V-24V is factory calibrated and there are no user accessible adjustments required.

FEATURES

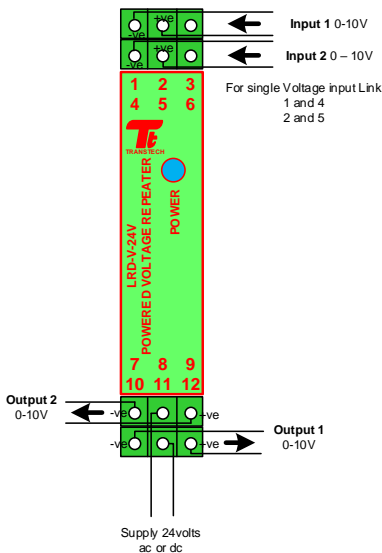
- ♦ Wide operating supply range 10-72V DC or 16-48V AC
- ♦ True five (5) port isolation
- ♦ Common 0V have no effect (including Supply V)
- ♦ Port-port creepage distance $\geq 2.5\text{mm}$
- ♦ No user adjustment required.
- ♦ Optical Isolation
- ♦ CISPIR 11 Compliant
- ♦ IEC61373, EN50155, EN50121-3-2 Compliant
- ♦ DIN rail mounting
- ♦ Very Small footprint of 17.5mm width

TECHNICAL DATA

Supply Voltage	24Vac/dc nominal
Supply Power	650mW plus load power
Five Port Isolation	1500V nominal
Input Range 2 channel	0 to 10Vdc
Optional Single Input	Contact the Factory
Output Range 2 channel	0 to 10Vdc (load less than 10mA)
Input Impedance	1Meg Ohms nominally
Output Impedance	$\ll 0.1 \text{ Ohm}$
ESD Protection	Nominally 15kV (all ports) (IEC 61000-4-2)
Power Indicator	Blue LED

GENERAL SPECIFICATION

Supply Voltage	10 to 72Vdc
Long term drift	$< 0.1\%$ of span per 10,000hrs
Isolation Level	1500V d.c.
Maximum Input (transient)	$\leq 400\text{V}$
Creepage distance	$\geq 2.5\text{mm}$. (port to port)
Output Noise	800 μV r.m.s. (typical).
Accuracy	0.1% of span
Linearity	0.1% of span
Repeatability	0.1% over 10,000hrs
CMR (50/60Hz)	Typically 110dB
Response time (to 1%)	Nominally 100mS (10 to 90%)
Operating Temp	-25 to 75 Deg. C
Storage Temp	-55 to 85 Deg. C
Terminals	Self Opening 2.5mm ²
Housing Material	KRILEN
Dimensions	79mm X 106mm X 25mm
Weight	135 grams



SCHEMATIC DIAGRAM

