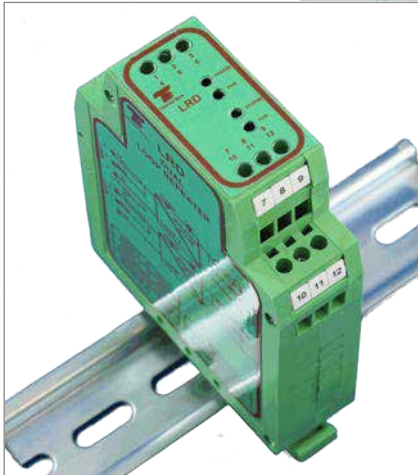


DATA SHEET – Process Automation– Loop Isolation

MODEL:- LRD

Loop Repeater 2Ch 4-20mA



The LRD is a fully floating 2 channel 4-20mA signal isolator that provides up to 2500Vrms isolation between the input loop and the output loop. The LRD can be used as a noise filter or reducer of common mode noise in some 4-20mA current loops. The LRD's input can be linked to give a single input with dual isolated outputs and it is manually adjustable to suit the individual loop loading, the adjustments being done from the top of the module via multi-turn potentiometers.

The LRD is factory calibrated for a 250ohm output load unless otherwise specified.

FEATURES

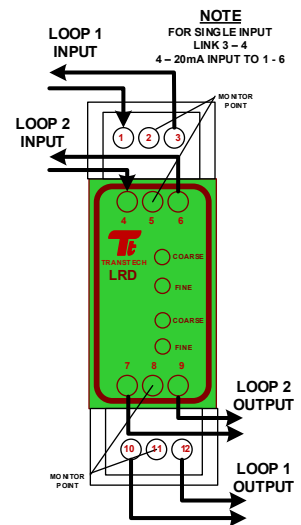
- Full galvanic isolation input and output
- Both DIN and G rail mounting
- External Monitor points (40-200mV)
- External adjustment points
- Very small footprint of 25mm width
- Internal monitoring resistors are all 0.1%

TECHNICAL DATA

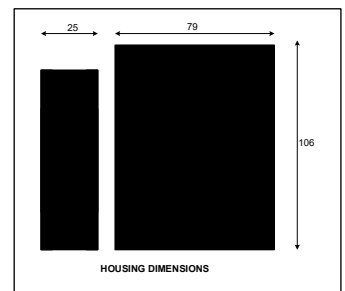
Loop Voltage	Between 12 and 45Vdc
Five Port Isolation	2500V nominal
Input Range 2 channel	0(4) to 20mA
Output single Input	Link terminals 1 & 5
Output range 2 channel	0(4) to 20mA
Loop Resistance	1200 ohms/loop maximum
ESD Protection	Nominally 15kV (all ports) (IEC 61000-4-2)
Power Indicator	Blue LED

GENERAL SPECIFICATION

Supply Voltage	12 to 45Vdc
Loop Resistance	Load plus 250 ohms
Long term drift	<0.1% of span per 10,000hrs
Isolation Level	2500V d.c
Creepage distance	≥2.5mm. (Port to Port)
Output Noise Level	3.2µA rms (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 75Deg. C
Storage Temp	-55 to 85 Deg. C
Terminals	Self Opening 2.5mm ²
Housing Material	KRILEN
Dimensions	79mm x 106mm x 25mm
Weight	135grams



CONNECTION DIAGRAM



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Design changes may occur in the interests of product performance & development
 Subject to change without notice
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