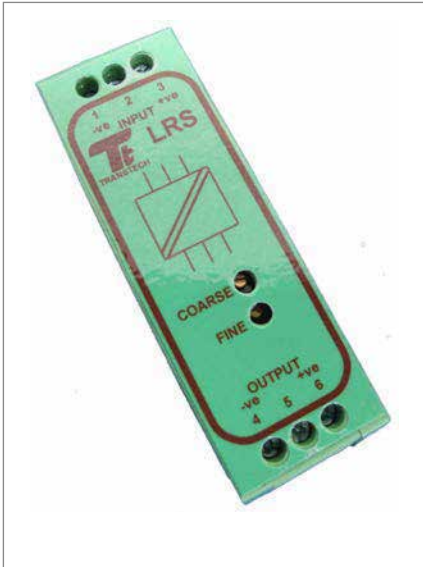


DATA SHEET – Process Automation– Loop Isolation

MODEL:- LRS

Loop Repeater 1Ch 4-20mA



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

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

FEATURES

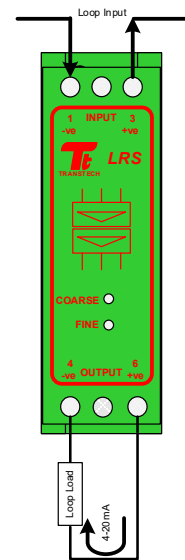
- Full galvanic isolation input and output
- Both DIN and G rail mounting
- External Monitor points (40-200mV)
- External adjustment points
- Very small footprint of 25mm width

TECHNICAL DATA

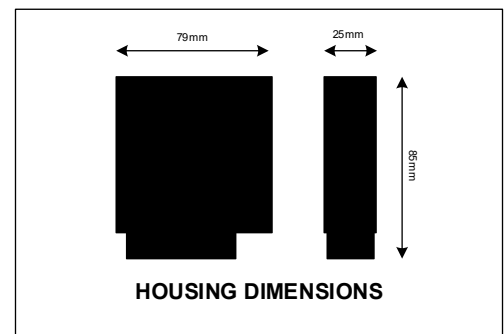
Loop Voltage	Between 12 and 45Vdc
Input	4 to 20mA
Output	4 to 20mA
Loop Resistance	250 ohms maximum per loop
ESD Protection	Nominally 15kV (all ports) (IEC 61000-4-2)
Four Port Isolation	1500V (galvanic, all ports)
Power Indicator	Blue LED

GENERAL SPECIFICATION

Loop Voltage	12 to 45Vdc
Loop Resistance	Load plus 250 ohms maximum
Long term drift	<0.1% of span per 10,000hrs
Isolation Level	1500V (galvanic, all ports)
Creepage distance	≥2.0mm. (Port to Port)
Output Noise Level	3.2µA rms (typical).
Accuracy	0.1% of spa
Linearity	0.1% of span
Repeatability	0.1% over 10,000hrs
CMR (50/60Hz)	Typically 110dB
Response time	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	79mmx85mmx25mm (see profile)
Weight	90grams



SCHEMATIC DIAGRAM



HOUSING DIMENSIONS

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**Design changes may occur in the interests of
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