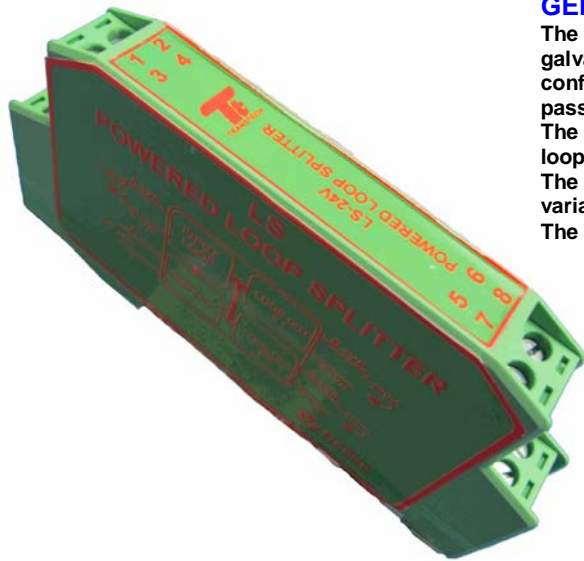


## MODEL:- LSx/xx-M

Powered Loop Splitter with Single Analogue IN / Dual OUT.



### GENERAL DESCRIPTION

The LSx/xx-M range offers users a fully floating signal isolator that provides up to 1500V galvanic isolation between all ports with true **four (4) port isolation**. The LSx/xx-M can be configured as either a powered repeater/loop splitter or as a special with one active plus one passive output. Both outputs are completely independent of each other. The LSx/xx-M can be used as a noise filter or reducer of common mode noise in current loops. The LSx/xx-M output currents/voltages are totally independent of load or line resistance variations, up to the 1200ohm limit, the voltage output versions can source up to 10mA. The LS-M 24V is factory calibrated and there are no user accessible adjustments required.

### TECHNICAL DATA

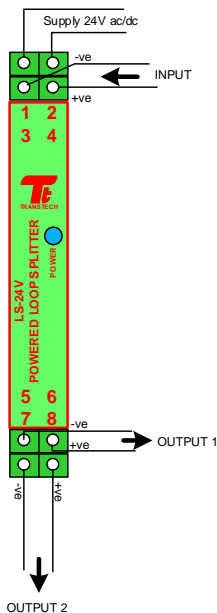
<b>Supply Voltage</b>	24V or 48Vac/dc nominal
<b>Supply Power</b>	650mW plus loop power
<b>Inputs Available</b>	0(4) to 20mA or 0-10Vdc (Consult factory for specials)
<b>Input Impedance</b>	Typically 51 Ohms for I and 1 Mohm for V
<b>Outputs Available</b>	See Table below
<b>Output 1</b>	See table below
<b>Output 2</b>	See table below
<b>Loop Resistance</b>	1200 ohms maximum per output current loop
<b>Loop Voltage</b>	10mA maximum drive current
<b>ESD Protection</b>	Nominally 15kV (all ports) (IEC 61000-4-2)
<b>Four Port Isolation</b>	1500V (galvanic, all ports)
<b>Power Indicator</b>	Blue LED

### GENERAL SPECIFICATION

Supply Voltage	20 to 95V dc (not polarity sensitive) or 18 to 65V ac
Loop Resistance	1200 ohms each loop max.
Long term drift	<0.1% of span per 10,000hrs
Isolation Level	1500V (galvanic, all ports)
Creepage distance	≥2.0mm, reinforced. (Port to Port)
Output Noise Level.	Typically 3.2µA rms.
Accuracy	0.1% of span
Linearity	0.1% of span
Repeatability	0.1% over 10,000hrs
CMR (50/60Hz)	Typically 100dB
Response time.	Nominally 100mS (10 to 90%)
Operating Temp	-25 to 75 Deg. C
Storage Temp	-55 to 85 Deg. C
Terminals	Self Opening 2.5mm <sup>2</sup>
Housing Material	KRILEN
Dimensions	51.3mm x 12.5mm x 99mm (see profile)
Weight	41 grams

### FEATURES

- ◆ Power LED
- ◆ Wide operating supply range 20-95V DC or 18-65V AC
- ◆ True four (4) port isolation
- ◆ Common 0V's have no effect (including the Supply V)
- ◆ Port to port creepage distance ≥ 2mm (reinforced)
- ◆ No user adjustment required
- ◆ Optical Isolation
- ◆ Current output 1200 ohms per loop resistance
- ◆ Voltage output load ability better than 10mA
- ◆ Output resistance D.C. (voltage) typically 10mΩ
- ◆ DIN rail mounting
- ◆ Very Small footprint 51.3mm x 12.5mm x 99mm H x W x L



**SCHEMATIC DIAGRAM**  
LSx/xx-M

MODEL	INPUT	OUTPUT 1	OUTPUT 2	SUPPLY
LSI/V-M	4-20mA	0-10V	0-10V	24 or 48Vac/dc
LSI/I-M	0(4)-20mA	0(4)-20mA	0(4)-20mA	24 or 48Vac/dc
LSI/IAP-M	4-20mA	4-20mA Active	4-20mA Std.	24 or 48Vac/dc
LSI/IV-M	4-20mA	4-20mA	0-10V	24 or 48Vac/dc
LSV/I-M	0-10V	0(4)-20mA	0(4)-20mA	24 or 48Vac/dc

