LiM 4-20

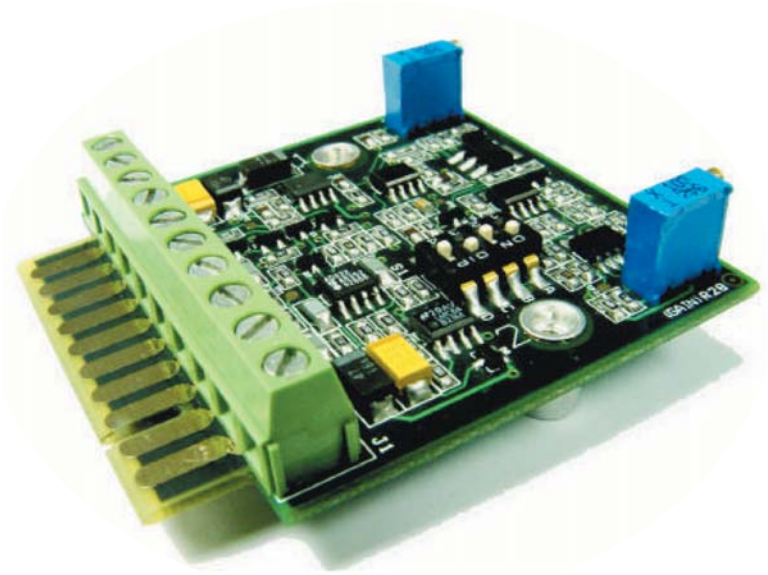
LVDT Transmitter Module

The LiM 4-20 is low cost LVDT transmitter module designed to provide good performance at a cost suitable for OEM applications.

Connection to the LiM 4-20 may be done utilizing the screw terminal barrier strip or optional card edge connector.

Dip switches are provided to set course gain ranges with a 2.5 to 1 screw potentiometer for fine output adjustments. 4 to 20 mA output may be achieved with LVDT full scale outputs from 100 mV to 5.6 Volts rms.

A 20-turn zero potentiometer provides for a ± 2.5 mA zero offset capability.



APPLICATIONS

- Valve Position Feedback
- Roller Gap Sensing
- Paper Head Box Position
- Coaters
- Materials Testing Machines

specifications

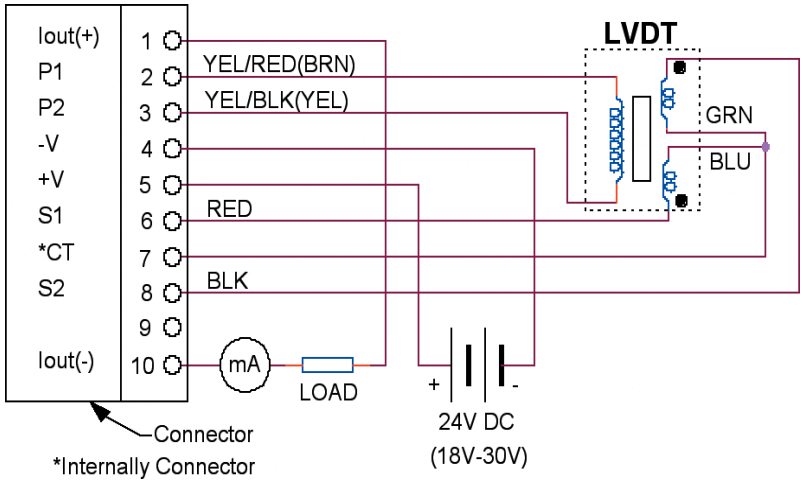
Transducer excitation	
Voltage	3.5±10% Vrms
	(up to 20mA)
Frequency	2.5KHz
Output	4-20mA
Noise and Ripple	25 micro-Amps rms (max)
Maximum Loop Resistance	500 Ω
	(with +24VDC loop supply)
Sensitivity	0.1 to 5.6Vrms
	(for FS output)
Fixed Gain	6 (switch selectable)
Adjustable Gain	2.5 to 1
Zero Adjustment	± 2.5mA
Non-linearity	0.05%
Frequency Response	50Hz(nominal)
	(-3dB)
Temperature Coefficient	0.01% FSO/°F
	0.02% FSO/°C
Operating Temperature	-13°F to 185°F
	-25°C to +85°C
Gain Controls	20 turn pot
	(2.5 to 1 ratio)
Input Voltage	18 to 30 Vdc
Input Current	50mA (max)
Stability	<0.05% of FSO
	(after 30 minute warm-up)

measurement SPECIALTIES

Measurement Specialties, Inc. • 1000 Lucas Way Hampton, VA 23666 USA • www.meas-spec.com • 757-766-1500 • 800-745-8008 • Fax 757-766-4297

LiM 4-20

connections



dimensions

in (mm) ·