

AC-LVDT Position Sensor Model M-0.5



The M-0.5 LVDT position sensor is ideal for high resolution measurements, up to 0.1 microns. Being an AC LVDT it needs a signal conditioner to operate, such as digital or analog EL-35 signal conditioners and USB-10 or USB-10-4 digital controllers, manufactured by Singer Instruments & Control.

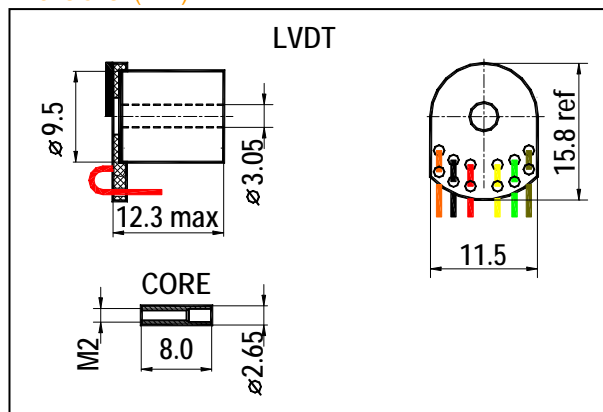
Different versions of this LVDT can be manufactured by request.

Specifications

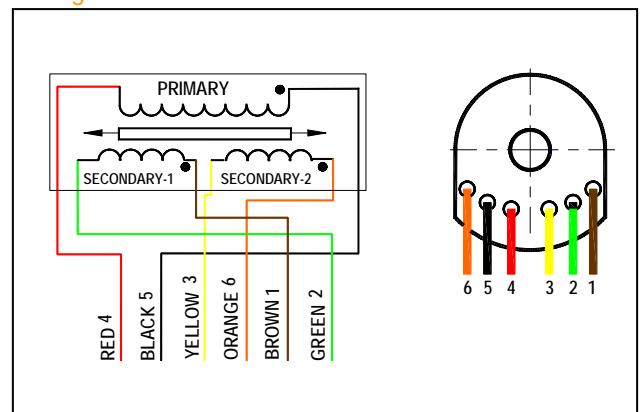
Input voltage	3V rms (nominal)
Frequency range	50 to 10000 Hz range @ 5kHz (nominal)
Linearity deviation error	0.15% F. R.
Operating temperature range	-20°C to + 70°C
Shock Survival	500g for 11 msec
Vibration tolerance	20 g up to 500 Hz
Lead wires	6 wires, 300 mm long
Weight	6 grams



Dimensions (mm)



Wiring



Notes

LVDT installations require a connecting rod between the LVDT core and the object whose motion is being measured. This connecting rod must be made of non-magnetic stainless steel (for example AISI 304)

How to order

Ordering example:
Model number: M – 0.5 (supplied with core)

TYPE	Linear Range	Sensitivity (tested at 5kHz)	Resistance		Impedance (tested at 5kHz)	
			Ω		Ω	
	mm	V/mm/Vex	Prim.	Sec.	Prim.	Sec.
M-0.5	±0.5	0.25	190	190	630	500

Rev. G

© Singer Instruments & Control Ltd., 2009

WWW.SINGER-INSTRUMENTS.COM

Information furnished by Singer Instruments & Control is believed to be accurate and reliable. However, no responsibility is assumed by Singer Instruments & Control for its use, nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Singer Instruments & Control Ltd.

Singer Instruments & Control Ltd.

2 Yozma St., Tirat Carmel 39032, ISRAEL
yuval@singer-instruments.com

540 East Main St., Branford, CT 06405, USA
fred@singer-instruments.com

Tel: 972-4-857-8880
Fax: 972-4-857-8881

Tel: 203-481-7278
Fax: 203-488-7190