

SM-LVDT

SM Series LVDT 2.3 mm diameter

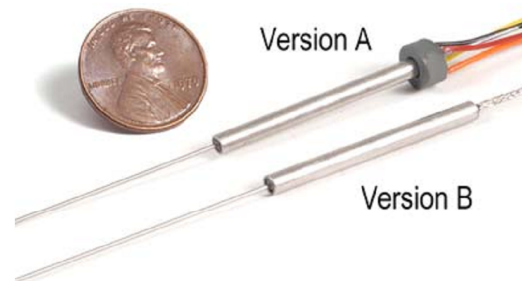
This micro-miniature LVDT is designed for high resolution position measurement in tight places. It is layer wound on metal coil-form provides excellent stability, while ferromagnetic housing takes care of the electromagnetic and electrostatic shielding

Several options are available for signal conditioning: digital or analog EL-35 signal conditioners, CB-100 line powered control box, and USB-10 digital controller.

Different versions of this LVDT can be manufactured by request.

Specification

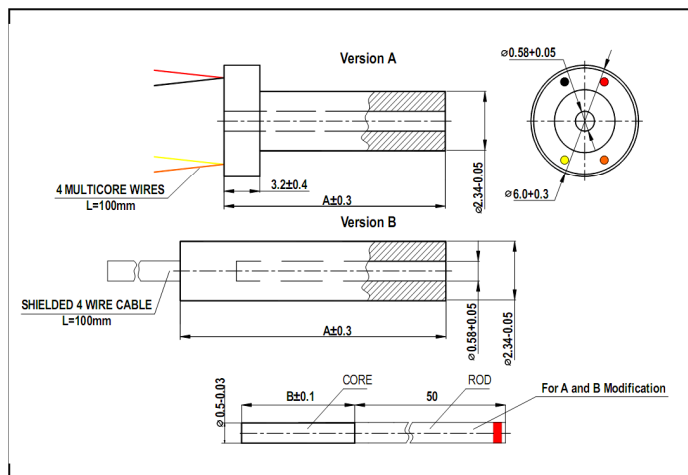
Input voltage.....	2.3Vrms max
Input Frequency.....	5kHz (nominal)
Linearity deviation error	2.0% F. R. max
Operating temperature range.....	-20°C to +70°C
Housing material.....	Nickel-Iron Alloy.



Applications:

- ✓ robotic systems - miniature control elements;
- ✓ miniature sensors - force, torque, joint movements;
- ✓ optical components - linear/angular position;
- ✓ medical use - micro motion, deformation.

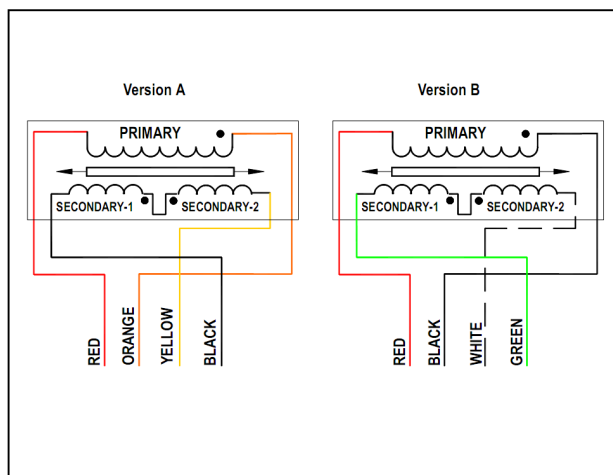
Dimensions (mm):



Notes

LVDT core is supplied together with welded connecting rod.
Non magnetic side is labelled with red mark

Wiring



How to order

Ordering example:

Model number: LVDT SM – 7.0A-3m (supplied with 3 meter long connecting wires.).

TYPE	Linear Range mm	Sensitivity (tested at 5kHz) V/mm/Vex	Impedance (tested at 5kHz)		Resistance		Length	
			Ω		Ω		mm	
			Prim.	Sec.	Prim.	Sec.	A	B
SM-1.0A	±1.0	0.07	190	50	115	45	10.0	6.5
SM-1.0B							18.0	
SM-2.5A	±2.5	0.044	310	70	170	65	17.5	11.0
SM-2.5B							25.5	
SM-5.0A	±5.0	0.044	170	70	90	60	27.5	17.0
SM-5.0B							35.5	
SM-7.0A	±7.0	0.029	205	90	130	80	35.0	19.5
SM-7.0B							43.0	
SM-8.5A	±8.5	0.02	240	110	165	100	43.0	26.2
SM-8.5B							51.0	

SENSEL MEASUREMENT

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