

OVERVIEW

SM Series LVDT have the smallest Dia. of 2.3mm [0.09"].

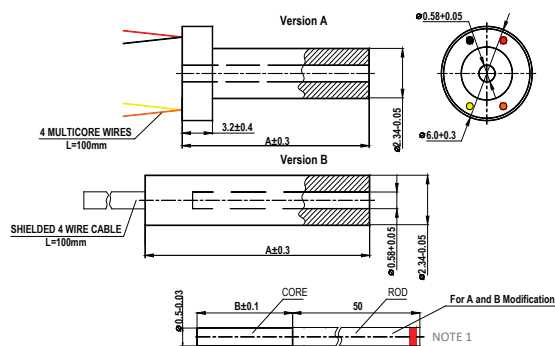
This micro-miniature LVDT is designed for high resolution position measurement in tight places. It is layer wound on metal coil-form provides excellent stability, while ferromagnetic housing takes care of the electromagnetic and electrostatic shielding.

Several options are available for signal conditioning: digital or analog EL-35 signal conditioners and USB-10-4 digital controller. Different versions of this LVDT can be manufactured by request.

SPECIFICATIONS

Ranges (mm)	± 1.0 to ± 8.5	Input Voltage	2.3Vrms max
Ranges (inch)	± 0.04 to ± 0.33	Input Frequency	5kHz (nominal)
Linearity	2.0%F.R. max	Operating temperature ($^{\circ}\text{C}$)	-20°C to $+70^{\circ}\text{C}$
Housing Diameter		Housing material	Nickel-Iron Alloy
Version B	2.3mm	Lead wires- version A . . .	AWG 30
Version A	6.0mm	Lead wires- version B . . .	Teflon, AWG 36

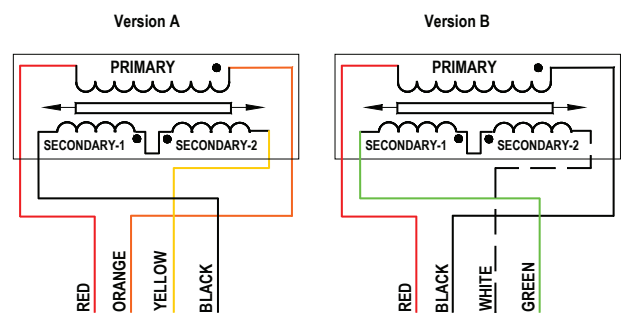
DIMENSIONS (mm)



Notes

- (1) LVDT core is supplied together with welded connecting rod. Non magnetic side is labelled with red mark
- (2) LVDT supplied with 1.5 meter long connecting wires

WIRING



MODEL	Stroke Range	Stroke Range	Sensitivity (tested at 5kHz)	Impedance (tested at 5kHz)		Resistance		Length	
	mm	inch		Prim. ohm	Sec.	Prim. ohm	Sec.	A mm	B mm
SM-1.0A	± 1.0	± 0.04	0.07	190	50	115	45	10.00	6.5
SM-1.0B								18.00	
SM-2.5A	± 2.5	± 0.1	0.044	310	70	170	65	17.5	11.0
SM-2.5B								25.5	
SM-5.0A	± 5.0	± 0.2	0.044	170	70	90	60	27.5	17.0
SM-5.0B								35.5	
SM-7.0A	± 7.0	± 0.3	0.029	205	90	130	80	35.0	19.5
SM-7.0B								43.0	
SM-8.5A	± 8.5	± 0.33	0.02	240	110	165	100	43.0	26.2
SM-8.5B								51.0	

Rev. M

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