

MINIATURE AC-LVDT M SERIES

OVERVIEW

The M series of AC-LVDT's are high quality position sensors. While other LVDT's in the market use random winding on plastic coil forms, all our sensors feature ordered layer winding on metal coil forms, providing higher accuracy and stability. Encapsulation and shielding make them environmentally resistant. The M model with its small size and high linearity is ideal for research and laboratory applications.

SPECIFICATIONS

Ranges (mm)
Linearity
Resolution
Excitation, nominal
Excitation,Ranger

±0.5 to +/-25 0.15%FR typ.(1) Virtually infinite 5Vrms @ 5KHz(2) 0 TO 10Vrms @ 0.4 to 20KHz -30 to 90

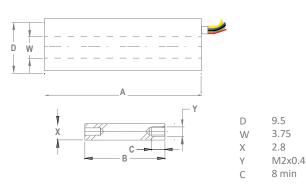
Storage temperature (°c)						
Vibration						
Shock						
Housing material						
Lead wires						

-55 to 110 20g, 10 to 2,000 Hz 500g, 11ms Nickel alloy #32 AWG, 300 mm long Plated stranded copper wire, teflon insulated

Operating temperature (°c) -30 t (1) Except 0.5%FR for the M.5, M1 models

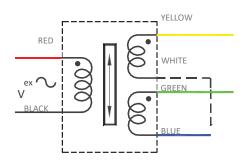
(2) For M.02 5Vrms@10KHz

DIMENSIONS (mm)



WIRING

Wired for differential output



	Stroke Range	Scale Factor	Impedance		Whight		A	В
MODEL	mm	V/mm/Vex	Ohm		gram		mm	mm
			Zin	Zout	Body	Core		
M.02	±0.5	0.25	300	250	4	0.3	12.75	9.5
M.05	±1.25	0.16	420	220	6	0.5	20.4	14.6
M.1	±2.5	0.13	650	350	9	0.7	28	19.4
M.2	±5.0	0.08	1200	1000	15	1.3	51	35.5
M.5	±15.5	0.033	2500	500	26	2.0	86.4	55.9
M1	±25.0	0.02	3500	800	37	2.6	127	73.7

*Max. deviation ±20%

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