

## 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.

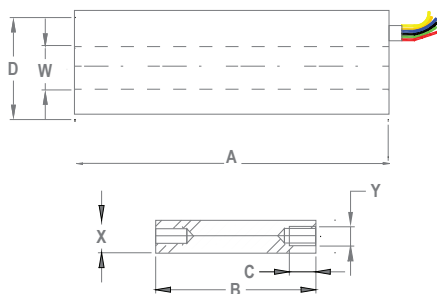
## SPECIFICATIONS

Ranges (mm) . . . . .	±0.5 to +/-25	Storage temperature (°c)	-55 to 110
Linearity . . . . .	0.15%FR typ.(1)	Vibration. . . . .	20g, 10 to 2,000 Hz
Resolution . . . . .	Virtually infinite	Shock. . . . .	500g, 11ms
Excitation, nominal . . . .	5Vrms @ 5KHz(2)	Housing material . . . . .	Nickel alloy
Excitation, Range. . . . .	0 TO 10Vrms @ 0.4 to 20KHz	Lead wires . . . . .	#32 AWG, 300 mm long Plated stranded copper wire, teflon insulated
Operating temperature (°c)	-30 to 90		

(1) Except 0.5%FR for the M.5, M1 models

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

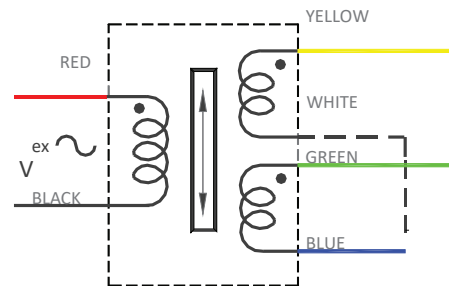
## DIMENSIONS (mm)



D	9.5
W	3.75
X	2.8
Y	M2x0.4
C	8 min

## WIRING

Wired for differential output



MODEL	Stroke Range	Scale Factor	Impedance		Weight		A	B
	mm		V/mm/Vex	Zin	Zout	Body		
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	±12.5	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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