

Industrial Series AC LVDT With M6 Rod End Bearings

Main Features

- Heavy duty stainless steel construction
- Magnetically shielded
- Radial exit
- Captive guided extension
- Mild steel M6 rod end bearings
- Sealed to IP65 or IP68
- 4 or 6 wire 2M PVC cable



Technical Specification

Product Code	IER		
Stroke	±0.5mm to ±550mm		
Input Voltage	5V RMS @ 3kHz (others available)		
Sensitivity	50 – 460mV/V/FRO (dependant on stroke)		
Non-Linearity	±0.5% of full range, (higher specification can be achieved at extra cost)		
Repeatability	Better than 0.1%		
Resolution	Infinite (dependent on measuring instrument)		
Frequency Response	3dB @ 180Hz (dependent on conditioning unit)		
Current Range	0.5mA – 8mA		
Temperature (standard)	-30° C to +85° C		
Temperature (high)	-30° C to + 150° C		
Temperature (very high)	-30° C to + 250° C		
Vibration Resistance	20g up to 2kHz		
Shock Resistance	1000g for 10 milliseconds		
Coil Impedance	600Ω + 100Ω (3kHz)		
Insulation Resistance	Above $10M\Omega$ at $500VDC$ (between wires and case)		
Dielectric Strength	500V RMS for one minute (between wires and case)		
Magnetic Shielding	Internal magnetic shielding		
Construction Material	Stainless steel		
Sealing	IP65		





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Option Description

J 4 wire device

G Extension rod wiper

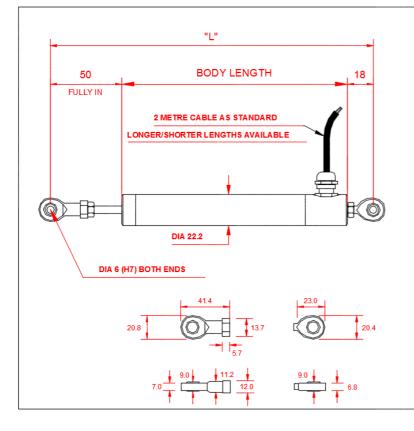
W Waterproof IP68, with stainless steel M6 rod end bearings

H High temperature 150°C, with PTFE cable and stainless steel M6 rod end bearings

Z Armoured hose

L Increased linearity, ±0.25%

Dimensions



+/-550	1410	1478	430	10	550	1530
+/-500	1410	1478	390	10	550	1530
+/-400	1150	1218	460	20	450	1010
+/-300	920	988	400	5	690	770
+/-250	810	878	350	10	290	560
+/-200	700	768	300	10	250	430
+/-175	615	683	310	2	230	360
+/-150	560	628	330	5	210	290
+/-125	500	568	300	2	180	320
+/-100	450	518	190	5	150	150
+/-75	390	458	350	20	260	460
+/-50	320	388	320	2	200	270
+/-25	235	303	240	5	130	210
+/-15	175	243	230	20	90	190
+/-12.5	160	228	300	15	120	190
+/-10	140	208	280	10	70	170
+/-5	120	188	80	5	100	110
+/-2.5	100	168	90	5	180	460
+/-0.5	80	148	50	20	40	1800
STROKE (mm)	BODY LENGTH	"L"	SENSITIVITY AT 3 KHz WITH 50K LOAD	NULL (mV)	PRIMARY RESISTANCE (OHM S)	SECONDARY RESISTANCE TOTAL (OHMS)





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Connection Details

4 Wires (PVC or PTFE, High Temperature 150°C)

Red : Primary +ve
Yellow : Primary -ve
Blue : Secondary +ve
Green : Secondary -ve

6 Wires (PVC)

Yellow: Primary +ve Black: Primary -ve

Blue : Secondary 2 -ve (Centre Tap)

White: Secondary 2 +ve Green: Secondary 1 +ve

Red : Secondary 1 -ve (Centre Tap)

6 Wires (PTFE, High Temperature 150°C)

Yellow: Primary +ve Black: Primary -ve

Blue : Secondary 2 -ve (Centre Tap)

Brown : Secondary 2 +ve Green : Secondary 1 +ve

Red : Secondary 1 -ve (Centre Tap)

