

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



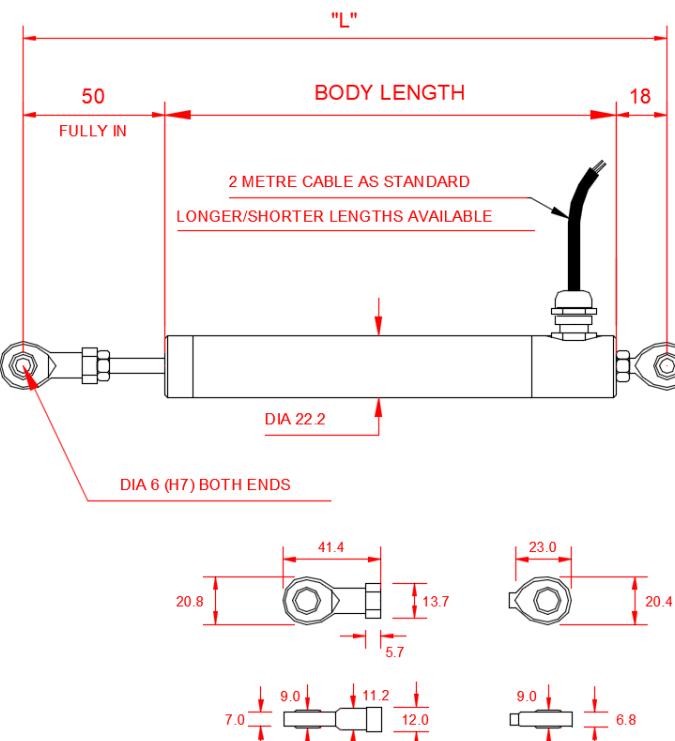
Technical Specification

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 + 200° C
Vibration Resistance	20g up to 2kHz
Shock Resistance	1000g for 10 milliseconds
Coil Impedance	600Ω + 100Ω (3kHz)
Insulation Resistance	Above 10MΩ 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

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
VH	Very high temperature 200°C, with PTFE cable and stainless steel M6 rod end bearings
Z	Armoured hose
L	Increased linearity, ±0.25%

Dimensions



STROKE (mm)	BODY LENGTH	"L"	Sensitivity AT 3kHz WITH 50K LOAD (mV/V FRO)	NULL (mV)	PRIMARY RESISTANCE (OHMS)	SECONDARY RESISTANCE (OHMS)
+/-550	1410	1478	345	10	550	1530
+/-500	1410	1478	475	10	550	1530
+/-400	1150	1218	440	20	450	1010
+/-300	920	988	270	5	690	770
+/-250	810	878	310	10	290	560
+/-200	700	768	285	10	250	430
+/-175	615	683	260	2	230	360
+/-150	560	628	230	5	210	290
+/-125	500	568	260	5	180	320
+/-100	450	518	240	5	150	150
+/-75	390	458	390	20	260	460
+/-50	320	388	260	5	200	270
+/-25	235	303	225	5	130	210
+/-15	175	243	246	5	90	190
+/-12.5	160	228	195	5	120	190
+/-10	140	208	270	5	70	170
+/-5	120	188	135	5	48	108
+/-2.5	100	168	140	5	130	740
+/-0.5	100	168	175	20	40	1800

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)