Monitran
Sensors for Industry

Main Features

- Heavy duty stainless steel construction
- Magnetically shielded
- Axial or radial exit
- Captive guided extension with ball end
- Internal spring
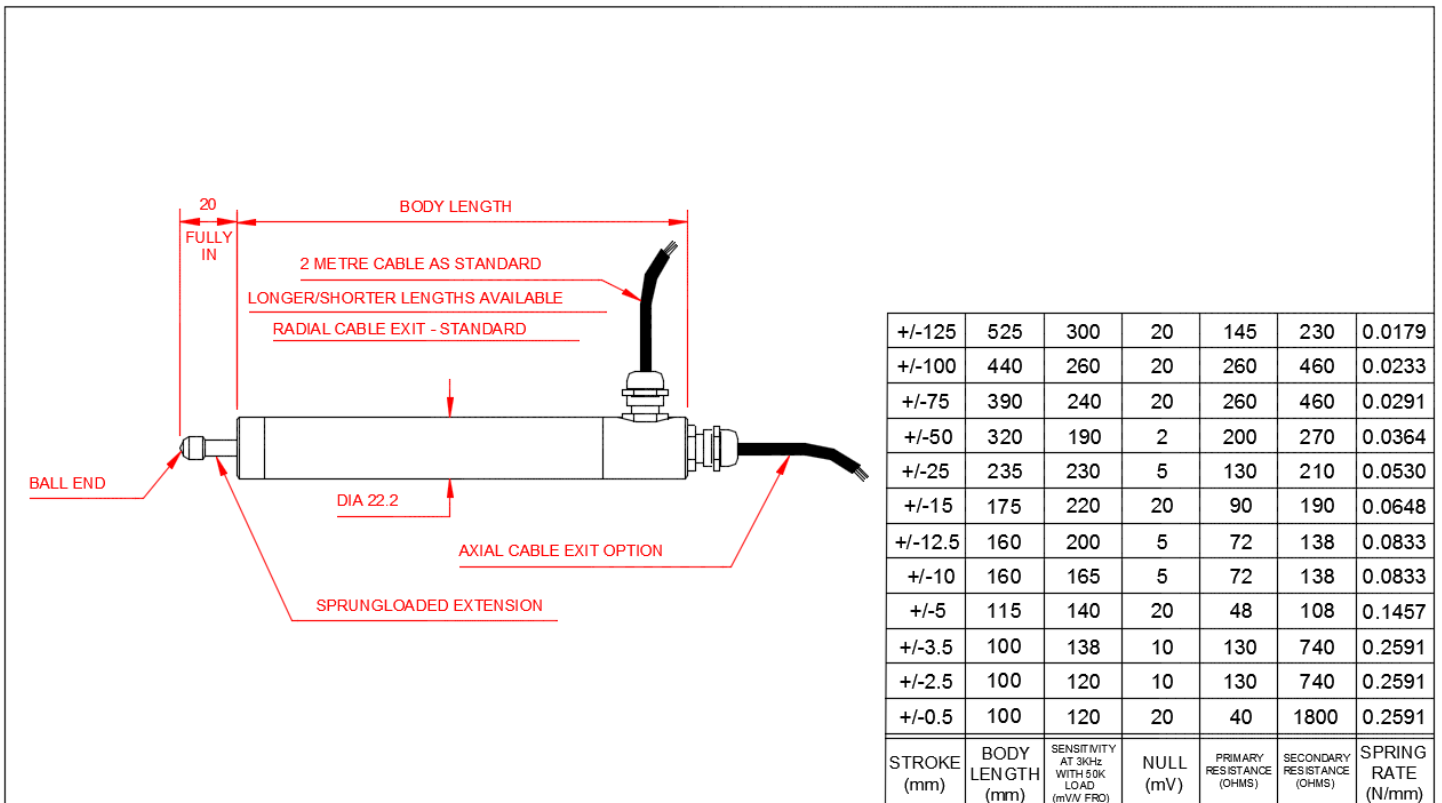- Sealed to IP65 or IP68
- 4 or 6 wire 2M PVC cable

Technical Specification

Product Code	IES
Stroke	±0.5mm to ±125mm
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

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Option | Description

Option	Description
A	Axial cable exit
J	4 wire device
G	Extension rod wiper
W	Waterproof IP68
H	High temperature 150°C, with PTFE cable
VH	Very high temperature 200°C, with PTFE cable
Z	Armoured hose
L	Increased linearity, ±0.25%

Dimensions

STROKE (mm)	BODY LENGTH (mm)	SENSITIVITY AT 3KHz WITH 50K LOAD (mV/V FRO)	NULL (mV)	PRIMARY RESISTANCE (OHMS)	SECONDARY RESISTANCE (OHMS)	SPRING RATE (N/mm)
+/-125	525	300	20	145	230	0.0179
+/-100	440	260	20	260	460	0.0233
+/-75	390	240	20	260	460	0.0291
+/-50	320	190	2	200	270	0.0364
+/-25	235	230	5	130	210	0.0530
+/-15	175	220	20	90	190	0.0648
+/-12.5	160	200	5	72	138	0.0833
+/-10	160	165	5	72	138	0.0833
+/-5	115	140	20	48	108	0.1457
+/-3.5	100	138	10	130	740	0.2591
+/-2.5	100	120	10	130	740	0.2591
+/-0.5	100	120	20	40	1800	0.2591

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We reserve the right to alter specifications without prior notice.

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)

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