Monitran
Sensors for Industry

Main Features

- Stainless steel construction
- Magnetically shielded
- Axial or radial exit
- Non-captive core & extension which can be guided with PTFE bushes
- Sealed to IP55
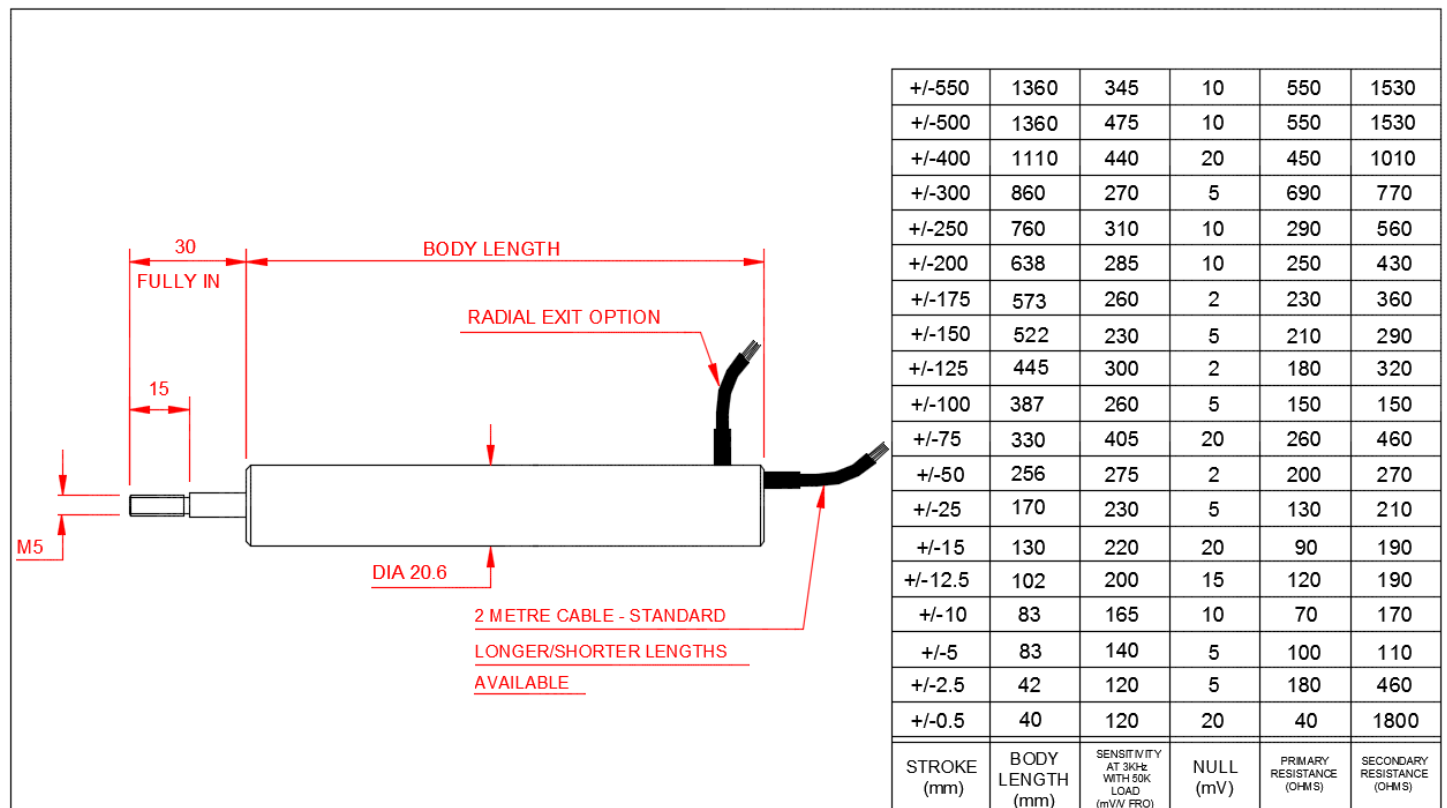- 4 or 6 wire 2M PVC cable

Technical Specification

Product Code	E
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	IP55

ISO 9001 Registered Company
sira CERTIFICATION
UKAS MANAGEMENT SYSTEMS 011

Option — Description

Option	Description
C	Radial cable exit
J	4 wire device
X	Extension with plain core
G	Guided core and extension
H	High temperature 150°C, with PTFE cable
VH	Very high temperature 200°C, with PTFE cable
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)
+/-550	1360	345	10	550	1530
+/-500	1360	475	10	550	1530
+/-400	1110	440	20	450	1010
+/-300	860	270	5	690	770
+/-250	760	310	10	290	560
+/-200	638	285	10	250	430
+/-175	573	260	2	230	360
+/-150	522	230	5	210	290
+/-125	445	300	2	180	320
+/-100	387	260	5	150	150
+/-75	330	405	20	260	460
+/-50	256	275	2	200	270
+/-25	170	230	5	130	210
+/-15	130	220	20	90	190
+/-12.5	102	200	15	120	190
+/-10	83	165	10	70	170
+/-5	83	140	5	100	110
+/-2.5	42	120	5	180	460
+/-0.5	40	120	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)