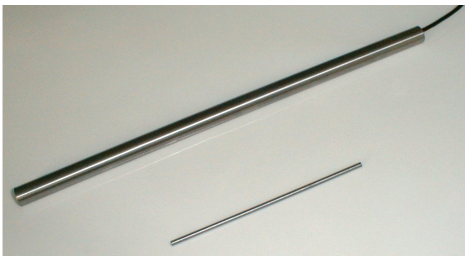
Miniature Series AC LVDT With Plain Core

Main Features

- Stainless steel construction
- Magnetically shielded
- Axial or radial exit
- Plain core
- Sealed to IP55
- 4 or 6 wire 2M PTFE cable



Technical Specification

Product Code	M
Stroke	±0.25mm to ±50mm
Input Voltage	5V RMS @ 3kHz (others available)
Sensitivity	25 – 800mV/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

Monitran Ltd | Monitor House | 33 Hazlemere Road | Penn | Bucks | UK | HP10 8AD

Telephone **+44 (0)1494 816569** | E-mail **info@monitran.com** | Website **www.monitran.com**

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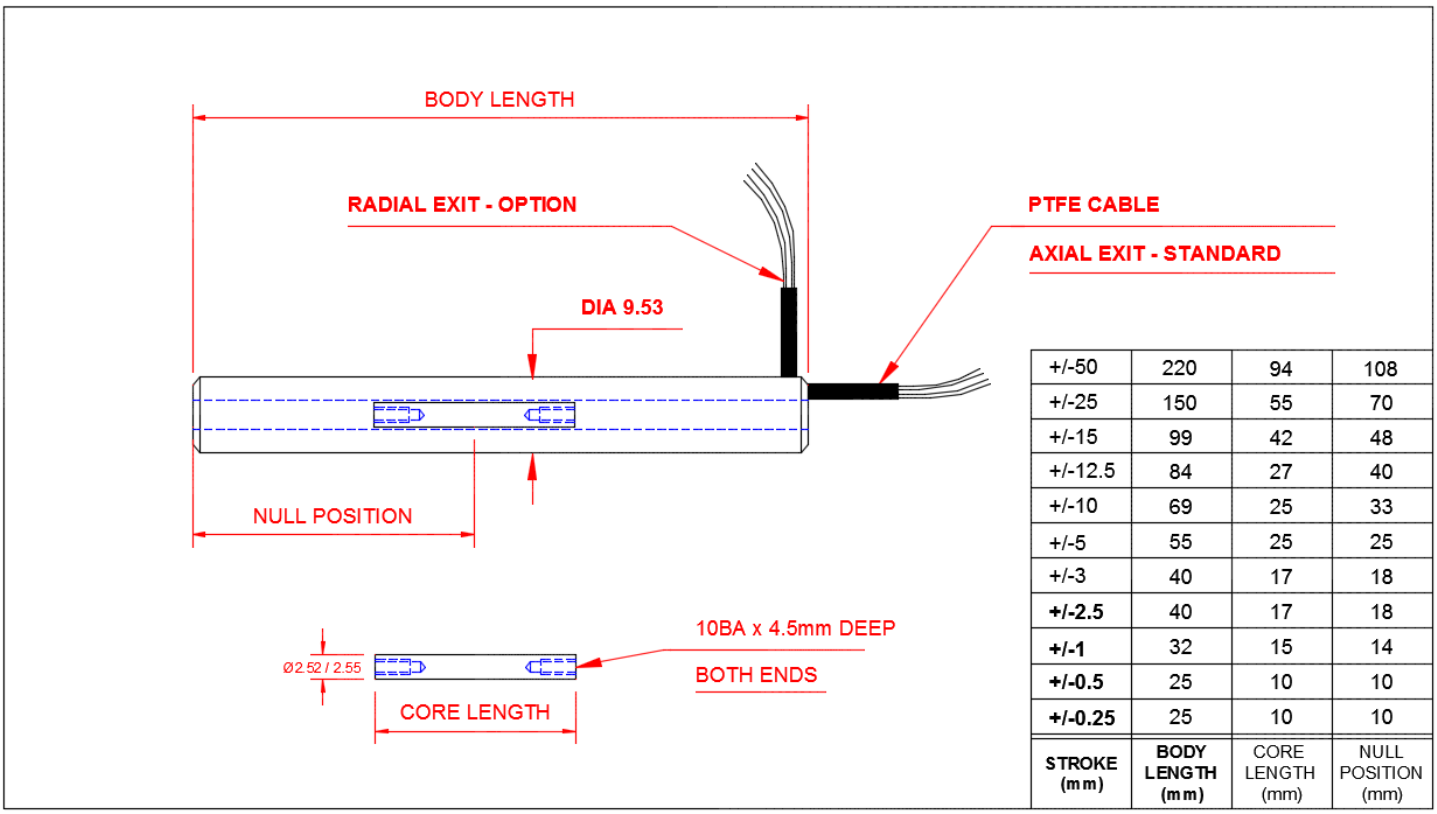
Option	Description
C	Radial cable exit
J	4 wire device
H	High temperature 150°C
VH	Very high temperature 200°C
L	Increased linearity, ±0.25%

Dimensions



STROKE (mm)	BODY LENGTH (mm)	CORE LENGTH (mm)	NULL POSITION (mm)
+/-50	220	94	108
+/-25	150	55	70
+/-15	99	42	48
+/-12.5	84	27	40
+/-10	69	25	33
+/-5	55	25	25
+/-3	40	17	18
+/-2.5	40	17	18
+/-1	32	15	14
+/-0.5	25	10	10
+/-0.25	25	10	10

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Connection Details

4 Wires (PTFE)

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

6 Wires (PTFE)

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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