

DC Displacement Sensor (Standard)

Series DS

22 mm



FEATURES

- Inbuilt Signal Conditioning
- Direct Voltage/ Current Output
- Economical
- 22 mm Diameter
- Stainless Steel Rugged Construction
- Non-Linearly error as low as 0.3 % FSR
- Wide Range from ± 1 to ± 300 mm

OPTIONS

- Teflon Bore Line
- Extension Core Red
- Light Weight Core and Core rod
- Ball Joint on housing or core rod

The DS Series of DC LVDTs are range of DC-input DC-output displacement transducer housed in stainless steel body. These transducers are equipped with in-built electronics. Output of $\pm 5V$ or 0 to 10 V makes them very easy to use and apply. No external signal conditioner or amplifier is required for there operation.

Application for these transducers include measurement and linear position, deflection/deformation measurement in automated material testing machine, Triaxial and consolidation testing machine for soil testing, spring testing machine, automation of textile machinery etc....

SPECIFICATIONS

Model	002 DS	005 DS	010 DS	025 DS	050 DS	075 DS	100 DS	150 DS	250 DS	300 DS
FSR* (mm)	2	5	10	25	50	75	100	150	250	300
Body Length (mm)	134	150	183	240	392	500	533	760	1175	
Mech. Stroke (mm)	24	27	30	60	119	195	219	345	543	
Non-linearity error (%FSR)	0.3	0.3	0.3	0.5	0.6	0.6	0.7	0.8	1.0	

Winding Configuration	LVDT
Output at full stroke	-5V to +5V or 0 to 10 V (to be specified with order)
Excitation	± 15 V DC
Temperature Range	Up to 60 C
Temp. Coeff. (% FSR)	Zero: $< 0.02\%$ / C Sensitivity: $< 0.04\%$ / C
Termination	4-core, screened, PVC insulated cable; 3 meter Transducer with longer cable (up to 20 m) Can also be supplied

* FSR-Full scale range (Measurement Range)

ACCESSORIES

LVDT Body Clamps

These Body clamps are made of reinforced fibre-bakelite. These clamps provide excellent solution for LVDT installation.

Note: All models up to ± 75 mm FSR are available with spring loaded core rod also.



Tips for fitment to core rod

- Hardened Ball Tip
- Ball Bearing Tip

RELATED ELECTRONICS

- AI210** (I-12) 3½ Digit Display Indicator
- AI210v** (I-6) 3½ Digit Display Indicator, voltage output
- AI210vi** (I-12) 3½ Digit Display Indicator, voltage & current output
- AI212vi** (I-12) 3½ Digit Display Indicator, Two set points, voltage output
- AI212vi** (I-12) 3½ Digit Display Indicator, Two set points, voltage output
- AI240** 4½ Digit high Resolution Display Indicator
- AI731** (I-9) Microprocessor based 16 x 2 character display. Three channel with RS232 Interfacing and two set point.



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Due to continuous product development specifications are subject to change without notice.

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