

Slim-line® AC Displacement Sensor

Series AM



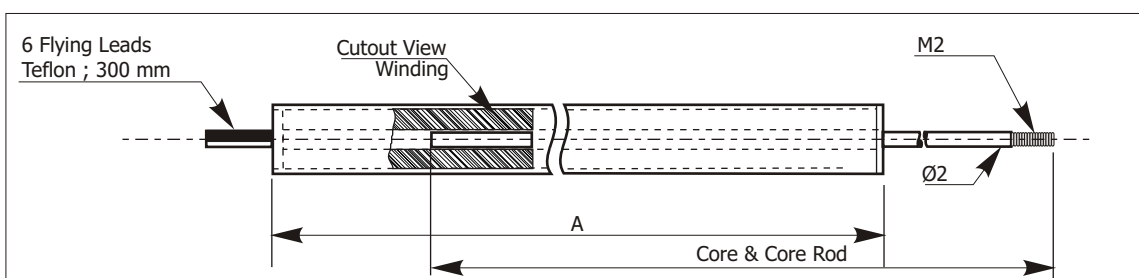
FEATURES

- Small Diameter
- Stainless Steel Construction
- Non-linearity error as low as 0.25% FSR
- Rugged Construction
- Warranty 5 Years

OPTIONS AVAILABLE

- External Spring loaded core rod.
- Customized and fittings.

Series AM, Slim-line AC LVDTs are designed for application where space is restricted. House in just 9.5 / 12.7 mm diameter stainless steel housing, these LVDTs provide excellent linearity and repeatability.



SPECIFICATIONS

Model	001 AM	002 AM	005 AM	010 AM	015 AM	020 AM	025 AM	030 AM	040 AM
Full Stroke Range (mm)	± 1 mm	± 2 mm	± 5mm	± 10 mm	± 15 mm	± 20 mm	± 25 mm	± 30 mm	± 40 mm
Output Sensitivity (mV/V/mm)	100	80	40	20	14	11	9	8	5
Non-linearity (% FSR)	0.25	0.25	0.3	0.3	0.3	0.3	0.3	0.3	0.4
Body Length (mm) A	36	52	65	76	88	100	112	124.5	152
Body Diameter (mm)	9.5	9.5	9.5	9.5	12.7	12.7	12.7	12.7	12.7

ELECTRICAL SPECIFICATIONS

Element Type	AC-AC Displacement Transducer
Input Supply	1 to 5 V rms, 2 to 5 kHz Sinewave
Electrical Termination	6 Flying leads (300mm) PTFE
Phase shift	<10 degrees at 2 khz.

MECHANICAL SPECIFICATIONS

Housing Material	Stainless Steel
Housing Diameter	9.5mm
Core Material	Stainless Steel
Core Diameter	2.0 mm
Core Threads	M2

TEMPERATURE SPECIFICATIONS

Temperature Range	10 to 60 Deg Centigrade
Temp Coefficient(%FSR)	Zero : < 0.02; output < 0.05

ACCESSORIES

LVDT Body Clamps

These Body clamps are made of reinforced fibre-Bakelite and provide excellent solution for LVDT installation. Except for 005AS and 010AS models all LVDT's require two body clamps each. Note:-All models up to ±75mm fsr are available with spring loaded core rods also.



Tips for fitment to core rod for

- Hardened Ball Tip
- Ball Bearing Tip

RELATED ELECTRONICS

- AC301**(c-1) Signal Conditioner Card
- AC302**(c-1) Signal Conditioner Card with 4...20mA Output
- AI302** (c-1) Mains operated signal conditioner box with 4-20 mA output.
- AI340** (c-1) High Resolution 4½ Digit Indicator.
- AI350** (i-1) 3½ Digit Display Indicator
- AI372** (i-4) Micro Controller Based LVDT Indicator with Rs232 output.
- AI731** (i-9) Microprocessor Based 16 x 2 character LCD display. Three Channel with RS232 Interface, computer Linkup and two set point
- LD612** (i-5) Load Displacement indicator for material testing

*When supplied with any of our electronics these LVDTs can be used for twice their specified range .Ex 025AS can be use for 0-50 mm range.



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

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