Precision Linear Transducers, Designed for Mounting in Hydraulic or Pneumatic Cylinder, Conductive Plastic Element (Unsealed Series/Ø 10 mm)

FEATURES

- Large range of strokes from 25 to 500 mm
- High accuracy
- Very good repeatability
- Continuous resolution
- Easy mounting

RoHS COMPLIANT

These unsealed sensors are suitable for installation in the high pressure chamber of cylinders.

ELECTRICAL SPECIFICATIONS	
Theoretical Electrical Travel (TET) = E	From 25 mm to 500 mm in increments of 25 mm
Independent Linearity (over TET) On Request	≤ ± 1 %; ≤ ± 0.1 % ≤ ± 0.05 % if E ≥ 100 mm ≤ ± 0.025 % if E ≥ 200 mm
Actual Electrical Travel (AET)	TET + 6 mm ± 0.5
Total Resistance R_T	150 Ω/cm
Resistance Tolerance at 20 °C	± 20 %
Repeatability	≤ 0.01 %
Maximum Power Rating	0.05 W/cm at 70 °C, 0 W at 125 °C
Wiper Current	1 mA max. continuous, recommended: a few µA
Load Impedance	1000 times R_T minimum
Insulation Resistance	> 1000 MΩ, 500 V_{DC}
Dielectric Strength	> 300 V_{RMS} at 50 Hz

MECHANICAL SPECIFICATIONS	
Mechanical Travel (MT)	MT = TET
Body	Anodized aluminum
Rod Internal Diameter	10 LH: Ø 12 mm
Operating Force	1 N typical
Electrical Outputs	Wires, L = 300 mm
Oil	Insulating mineral hydraulic
Pressure	300 bars continuous, 1000 bars accidentally
Wiper	Precious metal multifinger

PERFORMANCE	
Life	25 million cycles typical/1 Hz/T° = 20 °C ± 5 °C/80 % TET
Temperature Limits	- 20 °C to + 80 °C
Speed at 20 °C	1.5 m/s max.

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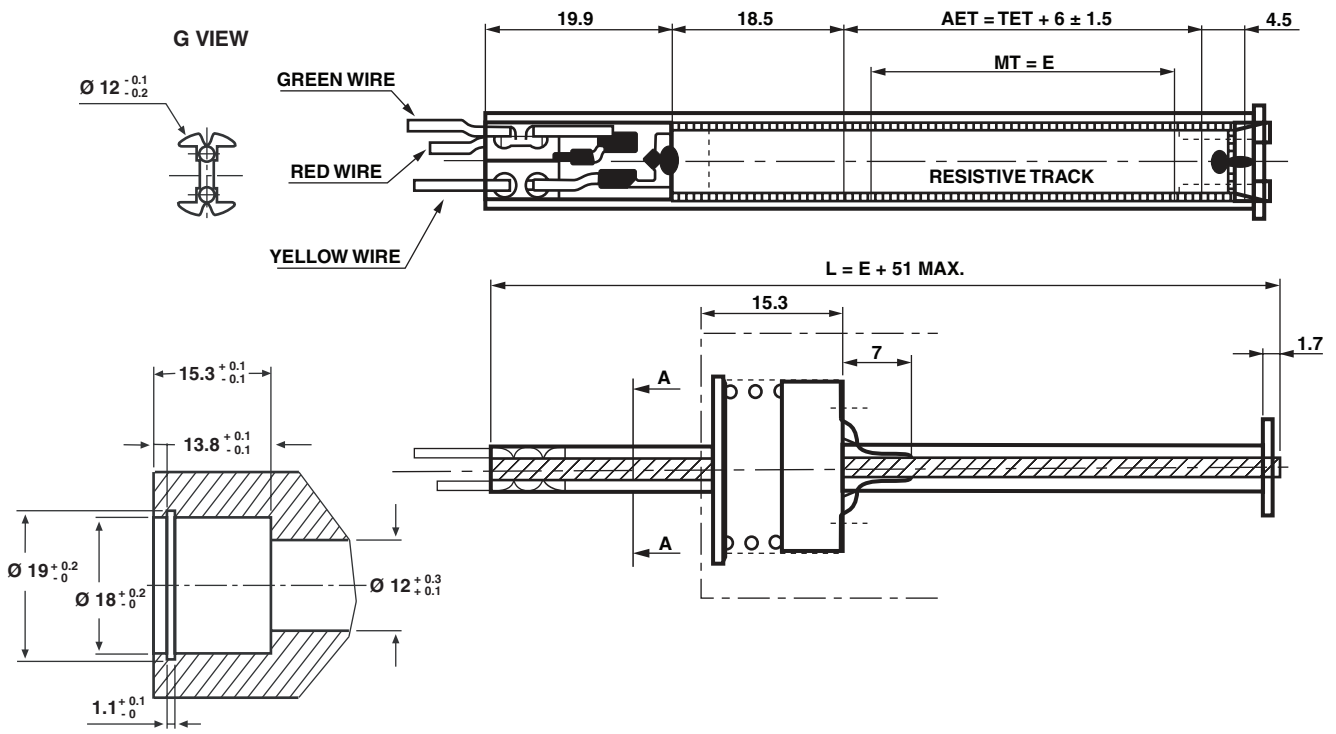
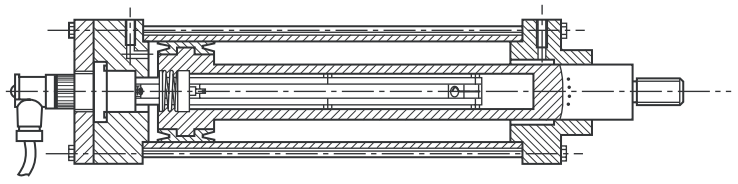
Vishay Sfernice

DIMENSIONS in millimeters, general tolerance ± 1 mm

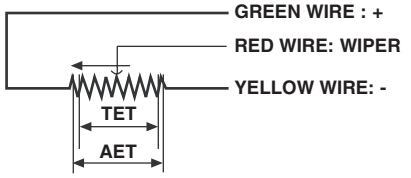


General Tolerance: ± 1 mm

MOUNTING IN ACTUATOR



ELECTRICAL CONNECTIONS



TET = THEARETICAL ELECTRICAL TRAVEL
AET = ACTUAL ELECTRICAL TRAVEL

ORDERING INFORMATION/DESCRIPTION

REC	10	LH	4	D	152	W...	e.
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH
		Unsealed	Times 25 mm	A: ≤ ± 1 % D: ≤ ± 0.1 % E: ≤ ± 0.05 % F: ≤ ± 0.025 %	First 2 digits are significant numbers Third indicates number of zeros	Special feature code number	

SAP PART NUMBERING GUIDELINES

RE	10 LH	4	D	152	W...
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES

Disclaimer

All product specifications and data are subject to change without notice.

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