Precision Linear Transducers, Designed for Mounting in Hydraulic or Pneumatic Cylinder, Conductive Plastic Element (Sealed Series/Ø 16 mm)

FEATURES

- Large range of strokes from 25 to 2000 mm
- High accuracy
- Very good repeatability
- Continuous resolution
- Easy mounting

RoHS COMPLIANT

Those sensors are to be installed in the high pressure chamber of cylinders and are equipped with glass-sealed electrical outputs.

ELECTRICAL SPECIFICATIONS	
Theoretical Electrical Travel (TET = E)	From 25 mm to 2000 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	Recommended: a few µA - 1 mA max. (continuous)
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	16 LA: Ø 18 mm
Support	Stainless steel
Operating Force	1 N typical
Sealing	Glass-sealing on electrical outputs
Electrical Outputs On Request	Connector Wires
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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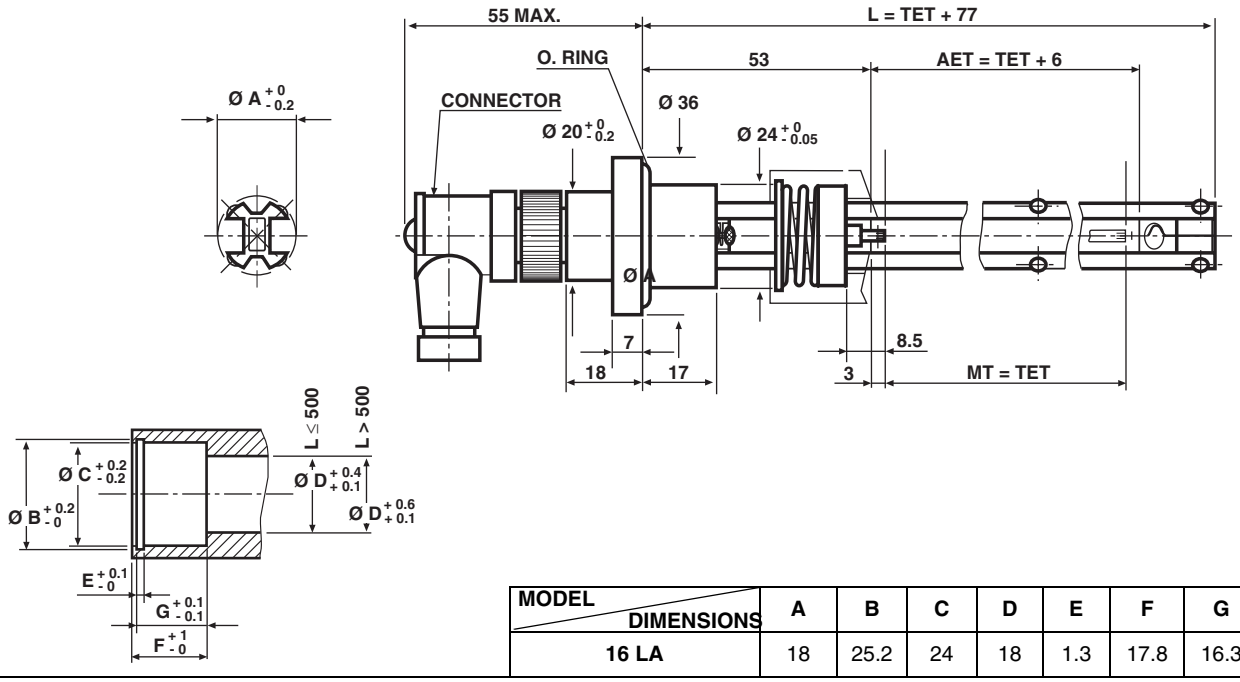
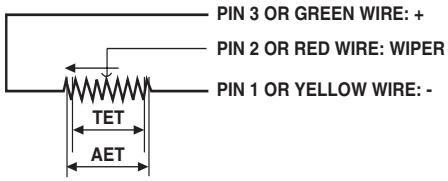
Vishay Sfernice

DIMENSIONS in millimeters, general tolerance ± 1mm



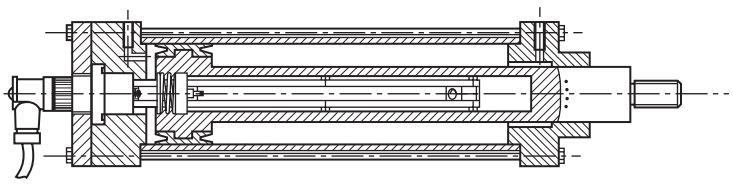
MODEL / DIMENSIONS	A	B	C	D	E	F	G
16 LA	18	25.2	24	18	1.3	17.8	16.3

ELECTRICAL CONNECTIONS



TET = Theoretical electrical travel
AET = Actual electrical travel

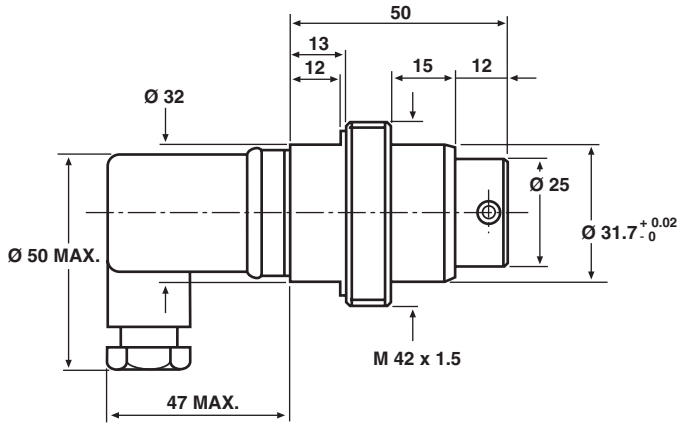
MOUNTING IN ACTUATOR



DIMENSIONS in millimeters, general tolerance ± 1 mm

OTHER DESIGNS OF SUPPORT

...W04200



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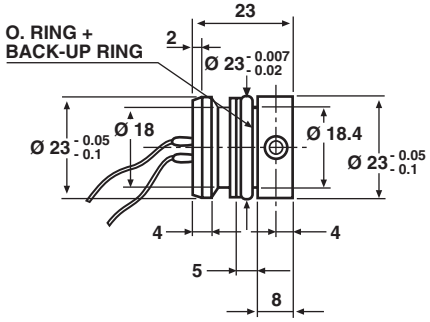

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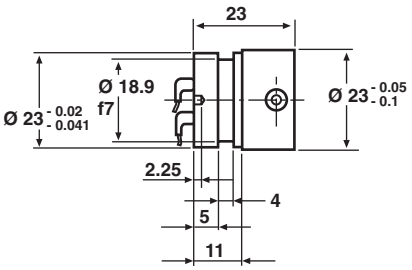

ORDERING INFORMATION/DESCRIPTION

REC	16	LA	4	D	152	W...	e.
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH
		Sealed	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	16 LA	4	D	152	W....
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES

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