

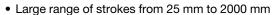
Vishay Sfernice

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



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

FEATURES





- High accuracy
- Very good repeatability
- Continuous resolution
- · Easy mounting
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

QUICK REFERENCE DATA			
Sensor type	LINEAR, conductive plastic		
Output type	Wires		
Market appliance	Industrial		
Dimensions	$L \times 16 \text{ mm dia.}$ (with $L = TET + 77 \text{ mm}$)		

Theoretical electrical travel (TET = E)	From 25 mm to 2000 mm in increments of 25 mm			
Independent linearity over TET On request	\leq \pm 1 %; \leq \pm 0.1 % \leq \pm 0.05 % if E \geq 100 mm, \leq \pm 0.025 % if E \geq 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			

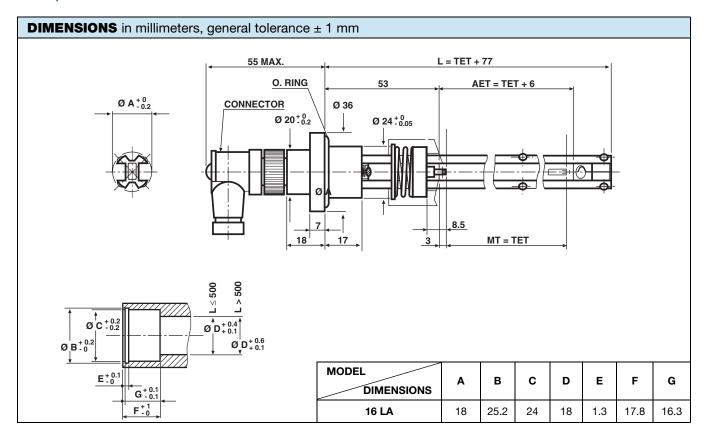
PERFORMANCE					
Life 25 million cycles typical/1 Hz/T° = 20 °C ± 5 °C/80 % TET					
Temperature limits	-20 °C to +80 °C				
Speed at 20 °C	1.5 m/s max.				

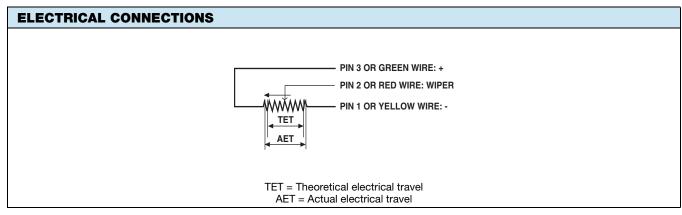
Note

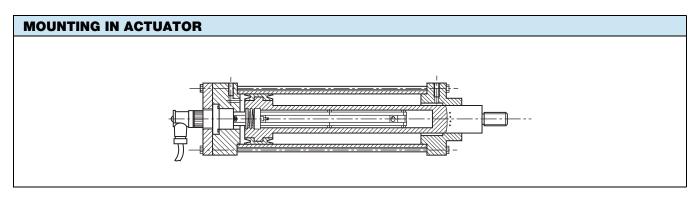
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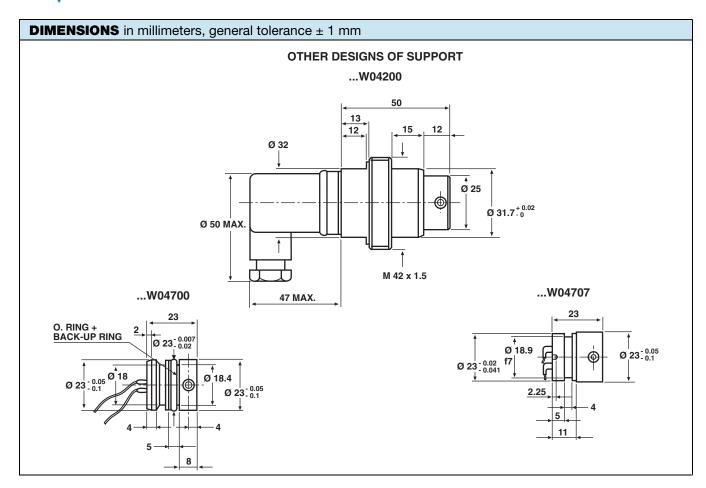
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ORDERI	NG INFOR	MATION/E	ESCRIPTION				
REC	16	LA	4	D	152	W	e.
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH
		Sealed	Times 25 mm	A: $\leq \pm 1 \%$ D: $\leq \pm 0.1 \%$ E: $\leq \pm 0.05 \%$ F: $\leq \pm 0.025 \%$	First 2 digits are significant numbers 3 rd 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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