

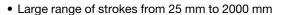
Vishay Sfernice

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



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

FEATURES





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

QUICK REFERENCE DATA				
Sensor type	LINEAR, conductive plastic			
Output type	Wires			
Market appliance	Industrial			
Dimensions	$L \times 16 \text{ mm dia. (with } L = TET + 70 \text{ mm)}$			

ELECTRICAL SPECIFICATIONS					
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)				
Loadimpedance	1000 times R _T minimum				
Insulation resistance	> 1000 MΩ 500 V _{DC}				
Dielectric strength	> 300 V _{RMS} at 50 Hz				

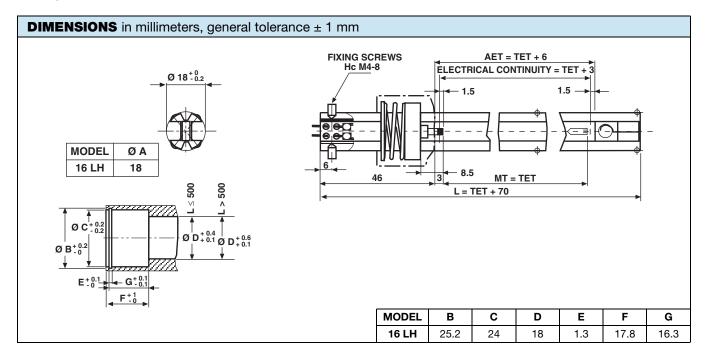
MECHANICAL SPECIFICATIONS				
Mechanical travel (MT)	MT = TET			
Body	Anodized aluminum			
Rod internal diameter	16 LH: Ø 18 mm			
Support	2 screws			
Operating force	1 N typical			
Electrical outputs	Wires 300 mm long			
Oil	Insulating mineral hydraulic			
Pressure	300 bars continuous, 1000 bars accidentally			
Wiper	Precious metal multifinger			

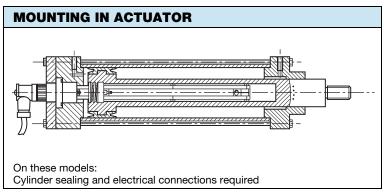
PERFORMANCE				
Life	25 million cycles typical/1 Hz/T $^{\circ}$ = 20 $^{\circ}$ C ± 5 $^{\circ}$ C/80 $^{\circ}$ TET			
Temperature limits	-20 °C to +80 °C			
Speed at 20 °C	1.5 m/s max.			

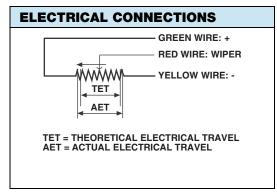
Note

Nothing stated herein shall be construed as a guarantee of quality or durability.

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ORDERING INFORMATION/DESCRIPTION							
REC	16	LH	4	D	152	W	e.
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH
		Unsealed	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 digit indicates number of zeros	Special feature code number	

SAP PART NUMBERING GUIDELINES							
RE	16 LH	4	D	152	W		
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES		



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