

Vishay Sfernice

## Precision Linear Transducers, Designed for Mounting in Hydraulic or Pneumatic Cylinder, Conductive Plastic Element (REC)



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

## **FEATURES**

- · Large Range of Strokes from 25 to 2000 mm
- · High Accuracy
- · Very Good Repeatability
- · Continuous Resolution
- · Easy Mounting

ELECTRICAL SPECIFICATIONS						
Theoretical electrical travel (TET = E)	from 25mm to 2000mm in increments of 25mm					
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 + 6mm ± 0.5					
Total resistance R⊤	150Ω/cm					
Resistance tolerance at 20°C	± 20%					
Repeatability	≤ 0.01%					
Maximum power rating	0.05W/cm at 70°C, 0W at 125°C					
Wiper current	1mA max. continuous, recommended: a few $\mu$ A					
Load impedance	1000 times RT minimum					
Insulation resistance	> 1000MΩ 500VDC					
Dielectric strength	> 300VRMS at 50Hz					

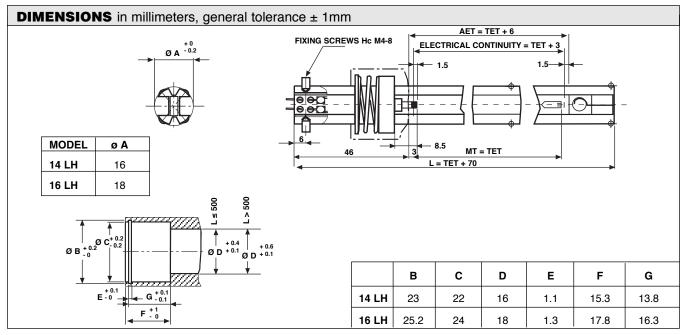
MECHANICAL SPECIFICATIONS				
Mechanical travel MT	MT = TET			
Body	anodized aluminum			
Rod internal diameter	14 LH : ø 16mm, 16 LH : ø 18mm			
Support	2 screws			
Operating force	1N typical			
Electrical outputs	wires 300mm long			
Oil	insulating mineral hydraulic			
Pressure	300 bars continuous, 1000 bars accidentally			
Wiper	precious metal multifinger			

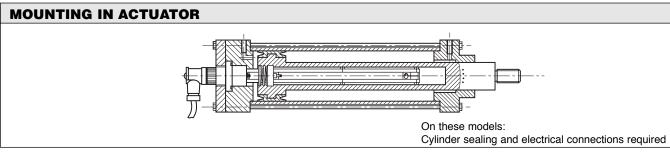
PERFORMANCE					
Life	40 million of cycles				
Temperature limits	− 20°C to + 80°C				
Speed at 20°C	1.5m/s max.				

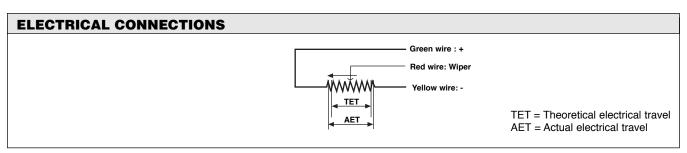
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ORDERING INFORMATION								
REC	14	LH	4	D	152	W		
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	RESISTANCE	MODIFICATIONS		
		Unsealed	Times 25mm	A: $\leq \pm 1\%$ D: $\leq \pm 0.1\%$ E: $\leq \pm 0.05\%$ F: $\leq \pm 0.025\%$	First 2 digits are significant numbers Third indicates number of zeros	Special Feature Code Number		