

Vishay Sfernice

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



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

QUICK REFERENCE DATA				
Sensor type	LINEAR, conductive plastic			
Output type	Wires			
Market appliance	Industrial			
Dimensions	10 mm dia.			

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>

ELECTRICAL SPECIFICATIONS			
Theoretical electrical travel (TET) = E	From 25 mm to 500 mm in increments of 25 mm		
Independent linearity (over TET) on request	\leq ± 1 %; \leq ± 0.1 % \leq ± 0.05 % if E \geq 100 mm \leq ± 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	1 mA max. continuous, recommended: a few μA		
Load impedance	1000 times R _T minimum		
Insulation resistance	$>$ 1000 M Ω , 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				

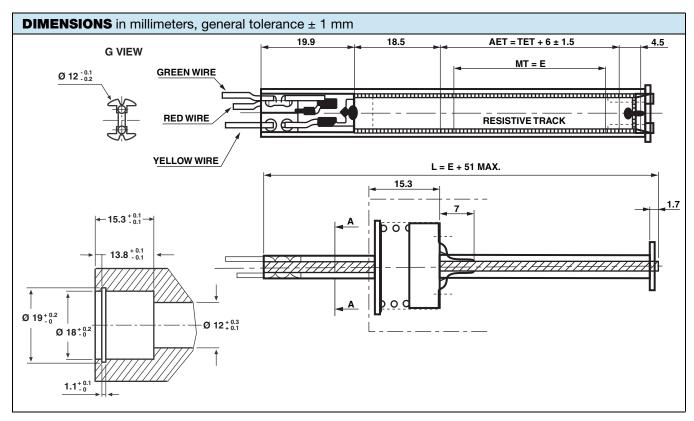
PERFORMANCE				
Life 25 million cycles typical/1 Hz/T° = 20 °C ± 5 °C/80 % TET				
Temperature Limits	-20 °C to +80 °C			
Speed at 20 °C	1.5 m/s max.			

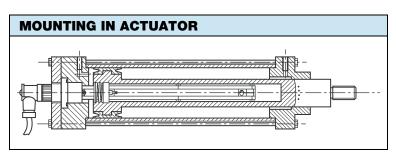
Note

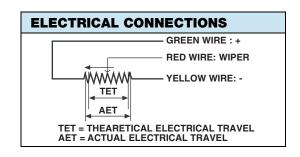
Nothing stated herein shall be construed as a guarantee of quality or durability.



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ORDERING INFORMATION/DESCRIPTION							
REC	10	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 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	



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