Vishay

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	≤ ± 1%; ≤ ± 0.1%				
on request	\leq ± 0.05% if E \geq 100mm, \leq ± 0.025% if E \geq 200mm				
Actual electrical travel (AET)	TET + 6mm ± 0.5				
Total resistance RT	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 μA				
Load impedance	1000 times RT minimum				
Insulation resistance	> 1000MΩ 500VDC				
Dielectric strength	> 300VRMS at 50Hz				

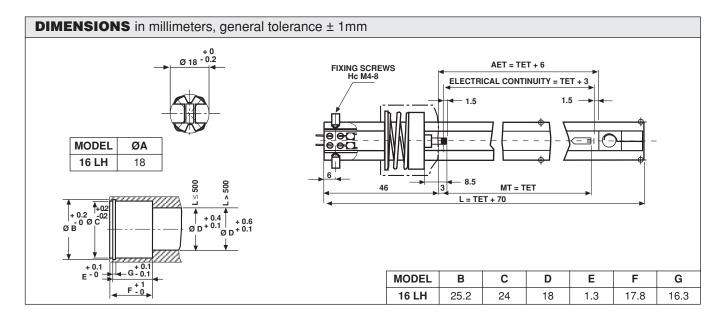
MECHANICAL SPECIFICATIONS				
Mechanical travel MT	MT = TET			
Body	anodized aluminum			
Rod internal diameter	16 LH : ø 18mm			
Support	2 screws			
Operating force	1N typical			
Electrical outputs	wires 300mm long			
Oil	insulating mineral hydraulic			
Pressure	300 bars continuous, 1000 bars accidentally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

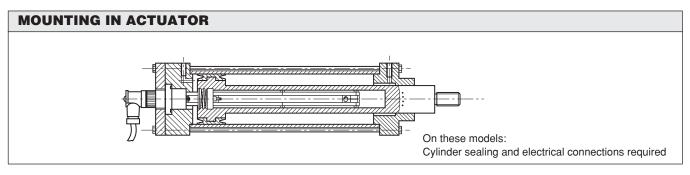
PERFORMANCE				
Life 40 million of cycles				
Temperature limits	− 20°C to + 80°C			
Speed at 20°C	1.5m/s max.			

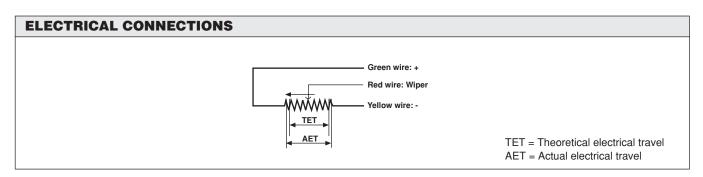
Vishay

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









ORDERING INFORMATION								
REC	16	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		

Document Number: 54016 Revision: 08-Jan-04

Legal Disclaimer Notice



Vishay

Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.

www.vishay.com Revision: 08-Apr-05