Series REC 10 LH

high pressure chamber of cylinders.

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

- Large range of strokes from 25 to 500 mm
- High accuracy

FEATURES

- Very good repeatability
- Continuous resolution
- Easy mounting

ELECTRICAL SPECIFICATIONS	
Theoretical Electrical Travel (TET) = E	From 25 mm to 500 mm in increments of 25 mm
Independent Linearity (over TET) On Request	$\leq \pm 1 \%; \leq \pm 0.1 \%$ $\leq \pm 0.05 \%$ 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	1 mA max. continuous, recommended: a few μA
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	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 \pm 5 °C/80 % TET				
Temperature Limits	- 20 °C to + 80 °C				
Speed at 20 °C	1.5 m/s max.				





Series REC 10 LH

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

Vishay Sfernice



General Tolerance: ± 1 mm



ORDERING INFORMATION/DESCRIPTION							
REC	10	LH	4	D	152	w	e.
SERIES	MODEL	TYPE	THEORETICAL ELECTRICAL	LINEARITY	RESISTANCE	MODIFICATIONS	LEAD FINISH
		Unsealed	Times 25 mm	$\begin{array}{l} A: \leq \pm \ 1 \ \% \\ D: \leq \pm \ 0.1 \ \% \\ E: \leq \pm \ 0.05 \ \% \\ F: \leq \pm \ 0.025 \ \% \end{array}$	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		



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.