



Precision Linear Transducers, Conductive Plastic, up to 1000 mm



The 115 L is a simply mounted, robust, high precision industrial linear motion transducer.

FEATURES

- Measurement range 25 mm to 1000 mm
- High accuracy ± 1 % down to ± 0.025 %
- Excellent repeatability
- Essentially infinite resolution
- Non sensitive to temperature variations



ELECTRICAL SPECIFICATIONS				
Theoretical Electrical Travel (TET) = E	From 25 mm to 1000 mm in increments of 25 mm			
Independent Linearity (over TET) On Request	\leq \pm 1 % \leq \pm 0.1 % \leq \pm 0.05 % for E \geq 100 mm \leq \pm 0.025 % for E \geq 200 mm			
Actual Electrical Travel (AET)	AET = TET + 1.5 mm min.			
Ohmic Values (R _T) 400 Ω/cm to 2 kΩ/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)			
Load Resistance	minimum 10 ³ x R _T			
Insulation Resistance	\geq 1000 M Ω , 500 V $_{DC}$			
Dielectric Strength	≥ 1000 V _{RMS} , 50 Hz			
Protection Resistor	Integrated inside the transducer to protect against errors when setting up (short circuit)			

MECHANICAL SPECIFICATIONS				
Mechanical Travel	E + 8 ± 2 mm			
Housing	Anodized aluminum			
Operating Force 7.5 N typical				
Shaft (Free Rotation)	Stainless steel			
Termination	Hydraulic type connector DIN 43650			
Wiper	Precious metal multifinger			
Mounting	Movable brackets			

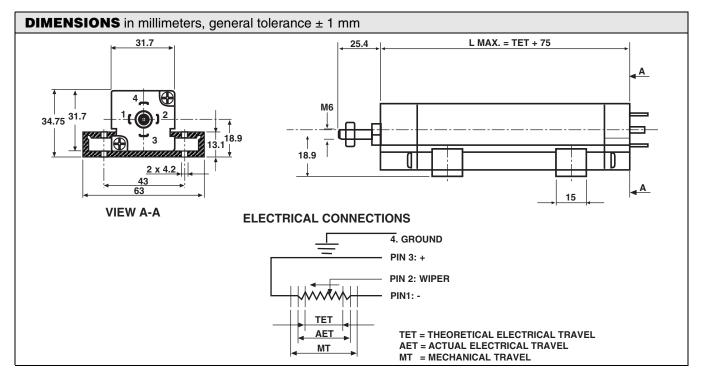
PERFORMANCE				
Operating Life	40 million cycles typical/1 Hz/T $^{\circ}$ = 20 $^{\circ}$ C ± 5 $^{\circ}$ C/80 $^{\circ}$ TET			
Temperature Range	- 55 °C to + 125 °C			
Sine Vibration on 3 Axes	1.5 mm peak to peak 0 - 10 Hz 15 g - 10 Hz - 2000 Hz			
Mechanical Shocks on 3 Axes	50 g - 11 ms - half sine			
Speed (max.)	8 m/s for f < 2 Hz; 3 m/s for f < 5 Hz			

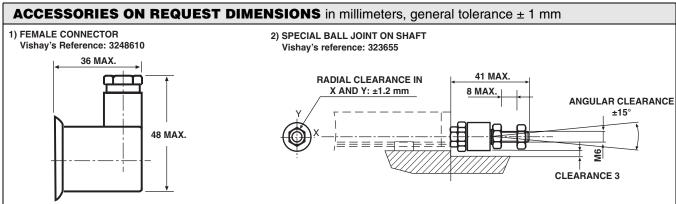
Series REC 115 L

Vishay Sfernice

Precision Linear Transducers, Conductive Plastic, up to 1000 mm







ORDERING INFORMATION/DESCRIPTION							
REC	115	L	23	D	103	W	e.
SERIES	MODEL	NUMBER OF TRACKS	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		L = 1	Times 25 mm	A: ± 1 % D: ± 0.1 % E: ± 0.05 % F: ± 0.025 %	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number	

SAP PART NUMBERING GUIDELINES							
RE	115 L	23	D	103	W		
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES		

Document Number: 54013 Revision: 24-May-07



Vishay

Disclaimer

All product specifications and data are subject to change without notice.

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 herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

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.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Document Number: 91000 Revision: 18-Jul-08

www.vishay.com