

Vishay Sfernice

Precision Linear Transducers, Conductive Plastic (REC)



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

FEATURES

- Measurement Range 25mm to 1000mm
- High Accuracy ± 1% down to ± 0.025%
- Excellent Repeatability
- · Long Life
- · Essentially Infinite Resolution
- · Not Sensitive to Temperature Variations

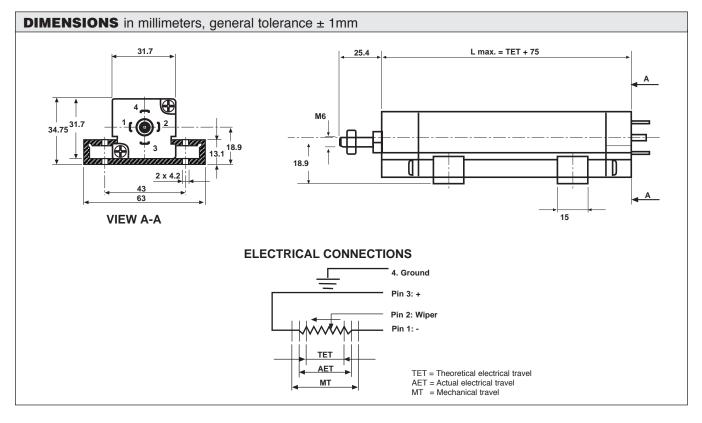
ELECTRICAL SPECIFICATIONS					
Theoretical electrical travel (TET = E)	From 25mm to 1000mm in increments of 25mm				
Independent linearity (over TET) on request	$\leq \pm 1\%$ - \leq - $\pm 0.1\%$ $\leq \pm 0.05\%$ for E ≥ 100mm, $\leq \pm 0.025\%$ for E ≥ 200mm				
Actual electrical travel (AET)	AET = TET + 1.5mm min.				
Ohmic values (RT)	400Ω/cm to 2kΩ/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	recommended: a few μA - 1mA max. continuous				
Load resistance	esistance minimum 10³ x RT				
Insulation resistance	≥ 1000MΩ 500VDC				
Dielectric strength	≥ 1000VRMS 50Hz				
Protection resistor	Integrated inside the transducer to protect against errors when setting up (short circuit)				

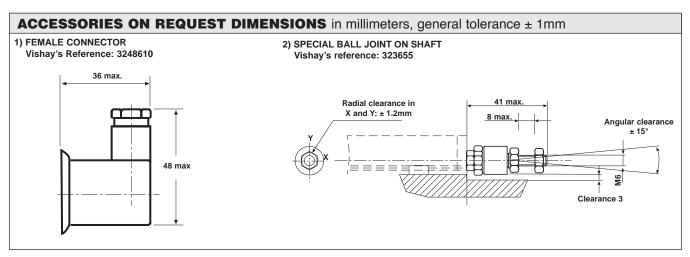
MECHANICAL SPECIFICATIONS				
Mechanical travel	E + 8 ± 2mm			
Housing	anodized aluminum			
Operating force	7.5N typical			
Shaft (free rotation)	stainless steel			
Termination	hydraulic type connector DIN 43650			
Wiper	precious metal multifinger			
Mounting	movable brackets			

PERFORMANCE					
Operating life	40 million cycles typical				
Temperature range	- 55°C +125°C				
Sine vibration on 3 axes	1.5mm peak to peak 0 - 10Hz 15g - 10Hz - 2000Hz				
Mechanical shocks on 3 axes	50g - 11ms - half sine				

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ORDERING INFORMATION									
REC	115	L	23	D	103	W			
SERIES	MODEL	NUMBER OF TRACKS	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS			
		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			