

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

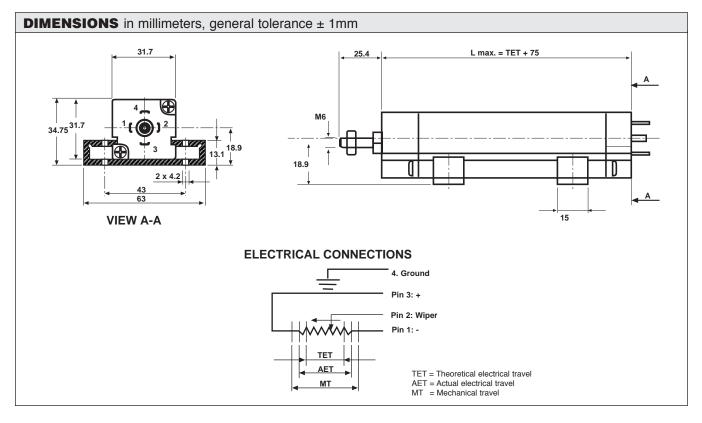
ELECTRICAL SPECIFICATIONS					
Theoretical electrical travel (TET = E)	From 25mm to 1000mm in increments of 25mm				
Independent linearity (over TET) on request	$\leq \pm 1\% - \leq - \pm 0.1\%$ $\leq \pm 0.05\%$ for E ≥ 100 mm, $\leq \pm 0.025\%$ for E ≥ 200 mm				
Actual electrical travel (AET)	AET = TET + 1.5mm min.				
Ohmic values (RT)	400Ω /cm to 2 k Ω /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 μ A - 1mA max. continuous				
Load resistance	minimum 10 ³ 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)				

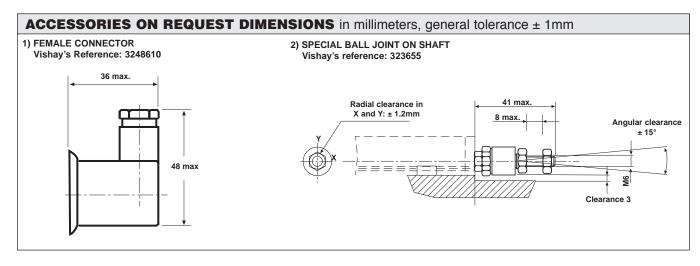
MECHANICAL SPECIFICATIONS					
Mechanical travel	E + 8 ± 2mm				
Housing	anodized aluminum				
Operating force	7.5N typical				
Shaft (free rotation)	stainless steel				
Termination	hydraulic type connector DIN 43650				
Wiper	precious metal multifinger				
Mounting	movable brackets				

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		