## **Vishay Sfernice**





The 38 L is a very compact model especially designed for precise measurement of short travels.

## FEATURES

- Measurement Range from 12.5mm to 150mm
- High Accuracy  $\pm$  1% down to  $\pm$  0.1%
- Long Life
- · Essentially Infinite Resolution
- Very Small Dimension: External Diameter = 9.52mm

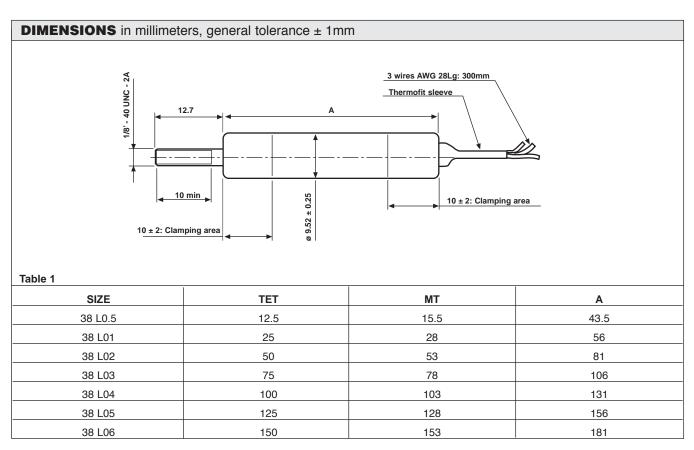
ELECTRICAL SPECIFICATIONS						
Theoretical electrical travel (TET)	From 12.5mm to 150mm see table 1					
Actual electrical travel (AET)	AET = TET + 1mm					
Independent linearity (over TET)	$\leq \pm 1\% - \leq \pm 0.5\%$ $\leq \pm 0.25\%$ for E $\geq 25mm$ $\leq \pm 0.1\%$ for E $\geq 50mm$					
Repeatability	≤ ± 0.01%					
Ohmic values (RT)	from 400Ω/cm to 2kΩ/cm					
Resistance tolerance at 20°C	± 20%					
Wiper current	recommended: a few $\mu$ A, 1mA max. continuous					
Load resistance	minimum 10 <sup>3</sup> x R⊤					
Insulation resistance	≥ 1000MΩ 500VDC					
Dielectric strength	≥ 500VRMS 50Hz					

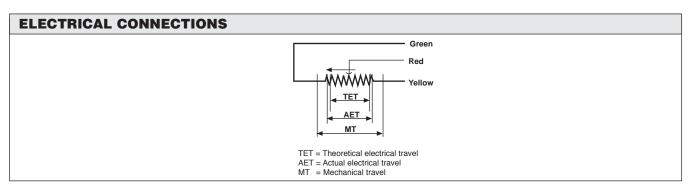
MECHANICAL SPECIFICATIONS					
Mechanical travel (MT)	MT = TET + 3 ± 1mm				
Housing	anodized aluminum				
Operating force	0.35N typical				
Termination	3 wires PTFE AWG 28 length: 300mm				
Wiper	precious metal multifinger				

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



## Precision Linear Transducers, Conductive Plastic (REC) Vishay Sfernice





ORDERING INFORMATION								
REC	38	L	0.5	С	102	w		
SERIES	MODEL	NUMBER OF TRACKS	ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS		
		L = 1 track	0.5 = 12.5mm 1 = 25mm 2 = 50mm 3 = 75mm 4 = 100mm 5 = 125mm 6 = 150mm	A: ± 1% B: ± 0.5% C: ± 0.25% D: ± 0.1%	First 2 digits are significant numbers 3rd digit indicates number of zeros	Special feature code number		