

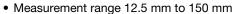
Vishay Sfernice

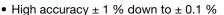
Precision Linear Transducers, Conductive Plastic, Up to 150 mm



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

FEATURES







- Long life
- · Essentially infinite resolution
- Very small dimension: external diameter = 9.52 mm
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

QUICK REFERENCE DATA				
Sensor type	LINEAR, conductive plastic			
Output type	Wires			
Market appliance	Professional			
Dimensions	9.52 mm dia.			

ELECTRICAL SPECIFICATIONS						
Theoretical electrical travel (TET)	From 12.5 mm to 150 mm see Table 1					
Actual electrical travel (AET) AET = TET + 1 mm						
Independent linearity (over TET)	\leq ± 1 % - \leq ± 0.5 % \leq ± 0.25 % for E \geq 25 mm \leq ± 0.1 % for E \geq 50 mm					
Repeatability	≤ 0.01 %					
Ohmic values (R _T)	From 400 Ω/cm to 4 kΩ/cm					
Resistance tolerance at 20 °C	± 20 %					
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	resistance Minimum 10 ³ x R _T					
Insulation resistance	≥ 1000 MΩ, 500 V _{DC}					
Dielectric strength	≥ 500 V _{RMS} , 50 Hz					

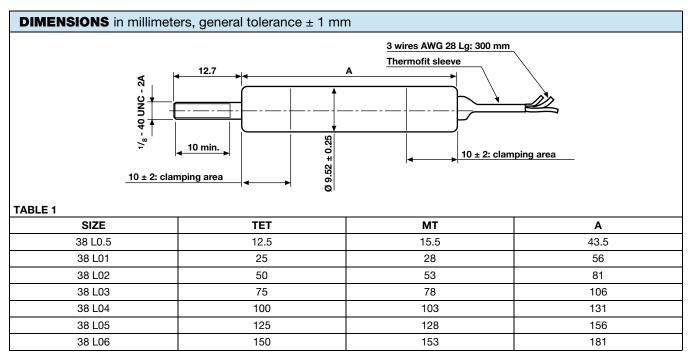
MECHANICAL SPECIFICATIONS					
Mechanical travel (MT)	MT = TET + 3 mm ± 1 mm				
Housing	Anodized aluminum				
Operating force	0.35 N typical				
Termination	3 wires PTFE AWG 26 length: 300 mm				
Wiper Precious metal multifinger					

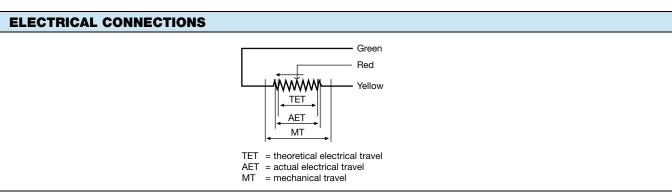
PERFORMANCE					
Operating life	25 million cycles typical/1 Hz/T° = 20 °C ± 5 °C/80 % TET				
Temperature range	-55 °C to +125 °C				
Sine vibration on 3 axes	1.5 mm peak to peak or 15 g - 10 Hz - 2000 Hz				
Mechanical shocks on 3 axes	50 g -11 ms - half sine				

Note

· Nothing stated herein shall be construed as a guarantee of quality or durability

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ORDERING INFORMATION / DESCRIPTION							
REC	38	L	0.5	С	102	W	e1
SERIES	MODEL	NUMBER OF TRACKS	ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		L = 1 track	0.5 = 12.5 mm 1 = 25 mm 2 = 50 mm 3 = 75 mm 4 = 100 mm 5 = 125 mm 6 = 150 mm	A: ± 1 % B: ± 0.5 % C: ± 0.25 % D: ± 0.1 %	First 2 digits are significant numbers 3 rd digit indicates number of zeros	Special feature code number	Sn Ag Cu

SAP PART NUMBERING GUIDELINES							
RE	38 L	0.5	С	102	W		
SERIES	MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES		

Legal Disclaimer Notice



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