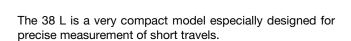
1

Precision Linear Transducers, Conductive Plastic, up to 150 mm



www.vishay.com

FEATURES

- Measurement range 12.5 mm to 150 mm
- High accuracy ± 1 % down to ± 0.1 %
- 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)	$\begin{array}{l} \leq \pm 1 \ \% - \leq \pm \ 0.5 \ \% \\ \leq \pm \ 0.25 \ \% \ \mbox{for } E \geq 25 \ \mbox{mm} \\ \leq \pm \ 0.1 \ \% \ \mbox{for } E \geq 50 \ \mbox{mm} \end{array}$			
Repeatability	≤ 0.01 %			
Ohmic Values (R _T)	From 400 Ω/cm to 2 kΩ/cm			
Resistance Tolerance at 20 °C	± 20 %			
Wiper Current	Recommended: a few µA - 1 mA max. (continuous)			
Load Resistance	Minimum 10 ³ x R _T			
Insulation Resistance	\geq 1000 MΩ, 500 V _{DC}			
Dielectric Strength	\geq 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 28 length: 300 mm	
Wiper	Precious metal multifinger	

PERFORMANCE		
Operating Life25 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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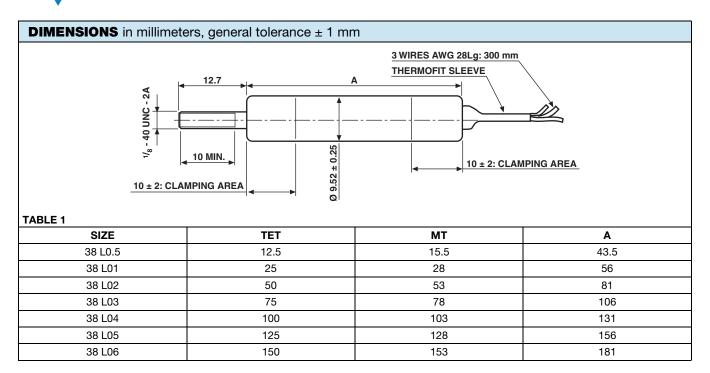
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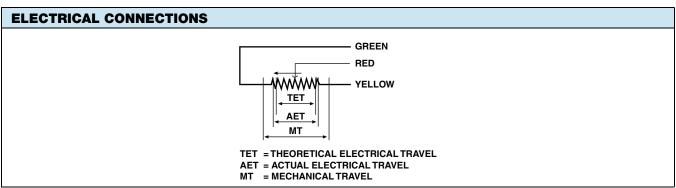


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Series REC 38 L

Vishay Sfernice





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

Revision:	26-Mar-15
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Document Number: 54010

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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