

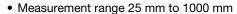
Vishay Sfernice

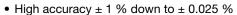
Conductive Plastic Motion Transducer Elements (KIT), Up to 1000 mm



The LMF is a reduced bulk, precision motion transducer, designed for easy integration into equipment.

FEATURES







- · Good repeatability
- · Simple and flexible mounting
- Essentially infinite resolution Made in two separate parts:
 - the sensing element
 - the wiper

Special designs available on request

 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

QUICK REFERENCE DATA				
Sensor type	LINEAR, conductive plastic			
Output type	Solder pads			
Market appliance	Industrial			
Dimensions	L x 15 mm x 1.6 mm (with L = TET + 18 mm)			

ELECTRICAL SPECIFICATIONS					
Theoretical electrical angle (TEA = E)	From 25 mm to 1000 mm in increments of 25 mm				
Independent linearity (over TET)	≤ ± 1 %; ≤ ± 0.1 %				
On request	$\leq \pm 0.05 \%$ for E $\geq 100 \text{ mm}$ $\leq \pm 0.025 \%$ for E $\geq 200 \text{ m}$				
Actual electrical travel (AET)	AET = TET + 2 mm				
Ohmic value	From 400 Ω/cm to 2 kΩ/cm				
Resistance tolerance at 20 °C	± 20 %				
Repeatability	≤ 0.01 %				
Maximum power rating	0.05 W/cm at 40 °C 0 W at 85 °C				
Wiper current	Recommended: a few µA - 1 mA max. (continuous)				
Load resistance	Minimum 10 ³ x R _T				
Insulation resistance	≥ 1000 MΩ, 500 V _{DC}				
Dielectric strength	≥ 750 V _{RMS} , 50 Hz				

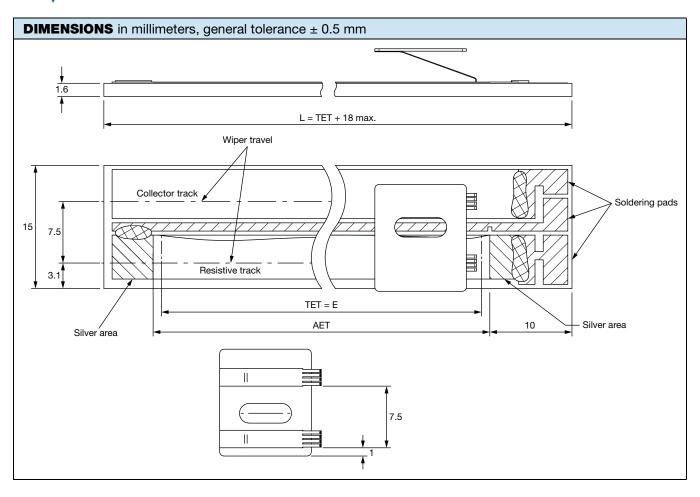
MECHANICAL SPECIFICATIONS					
Support of element On request	Fiberglass epoxy Plastic molding				
Wiper (non insulated) On request	Precious metal multifinger Insulated				
Terminals On request	Soldering pads By wires				
Fixing On request	Glued: double face Isotac Screwed: holes in the support				

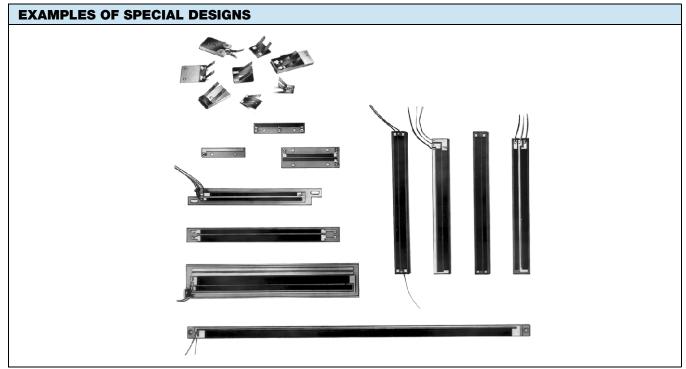
PERFORMANCE	
Operating life	25 million cycles typical/1 Hz/T° = 20 °C ± 5 °C/80 % TET
Temperature range	-55 °C to +125 °C

Note

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











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ORDE	ORDERING INFORMATION / DESCRIPTION						
KIT	LM	F	3	D	103	W2851	e.
SERIES	MODEL	CONDUCTOR	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS	LEAD FINISH
		F: plastic S: serigraphy	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	W2851: up to 575 mm max. length Wxxxx: special feature code number for length > 575 mm	

SAP PART NUMBERING GUIDELINES							
LMF	3	D	103	W2851			
MODEL	TET	LINEARITY	OHMIC VALUE	SPECIAL FEATURES			



Legal Disclaimer Notice

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