Vishay Sfernice

Conductive Plastic Motion Transducer Elements (KIT)



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

FEATURES

- · Large Measurement Range 25mm to 1000mm
- High Accuracy ± 1% down to ± 0.025%
- · Long Life 50 000 000 cycles
- · Simple and Flexible Mounting
- · Essentially Infinite Resolution

Made in two separate parts:

- the sensing element
- the wiper.

Special designs available on request.

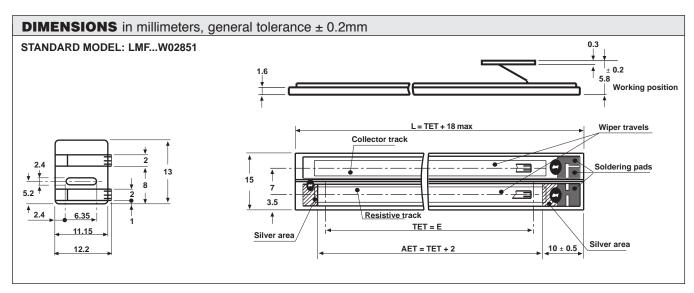
ELECTRICAL SPECIFICATIONS						
Theoretical electrical angle (TET = E)	From 25mm to 1000mm in increments of 25mm					
Independent linearity (over TET)	≤ ± 1%; ≤ ± 0.1%					
on request	\leq ± 0.05% for E \geq 100mm	\leq ± 0.025% for E \geq 200mm				
Actual electrical travel (AET)	AET = TET + 2mm					
Ohmic value	from 400 Ω /cm to 2k Ω /cm					
Resistance tolerance at 20°C	± 20%					
Repeatability	≤ 0.01%					
Maximum power rating	0.05W/cm at 40°C	0W at 85°C				
Wiper current	recommended: a few μ A 1mA max. continuous					
Load resistance	minimum 10 ³ x RT					
Insulation resistance	≥ 1000MΩ, 500VDC					
Dielectric strength	≥ 750VRMS 50Hz					

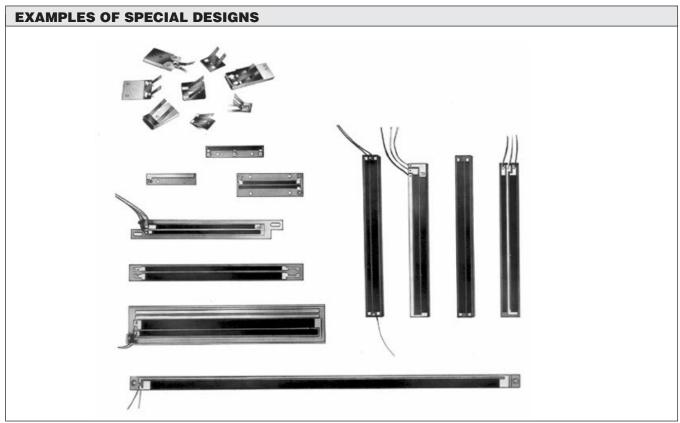
MECHANICAL SPECIFICATIONS				
Support of element on request	fiberglass epoxy plastic moulding			
Wiper (non insulated) on request	precious metal multifinger insulated			
Terminals on request	soldering pads by wires			
Fixing on request	glued: double face Isotac screwed: holes in the support			

PERFORMANCE			
Operating life	50 million cycles typical		
Temperature range	- 55°C + 125°C		



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ORDERING INFORMATION								
KIT	LM	F	3	D	103	W		
SERIES	MODEL	CONDUCTOR	THEORETICAL ELECTRICAL TRAVEL	LINEARITY	OHMIC VALUE	MODIFICATIONS		
		F: Plastic S: Serigraphy	Times 25mm	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		