

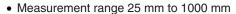
Vishay Sfernice

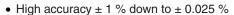
Conductive Plastic Motion Transducer Elements (KIT), up to 1000 mm

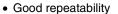


The LMF is a reduced bulk, precision motion transducer, designed for easy integration into equipment.

FEATURES







- · Simple and flexible mounting
- Essentially infinite resolution

Made in two separate parts:

 $\geq 750~V_{RMS},\,50~Hz$

- the sensing element
- the wiper

Special designs available on request.

| ELECTRICAL SPECIFICATION | IS | | | |
|--|--|--------------------------------------|--|--|
| 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 ± 0.05 % for E \geq 100 mm | \leq ± 0.025 % for E \geq 200 mm | | |
| 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} | | | |

| MECHANICAL SPECIFICATIONS | | | | |
|----------------------------------|---|--|--|--|
| Support of Element | Fiberglass epoxy | | | |
| On Request | Plastic moulding | | | |
| Wiper (Non Insulated) On Request | Precious metal multifinger Insulated | | | |
| Terminals | Soldering pads | | | |
| On Request | By wires | | | |
| Fixing | Glued: Double face Isotac | | | |
| On Request | 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 | | | | | |

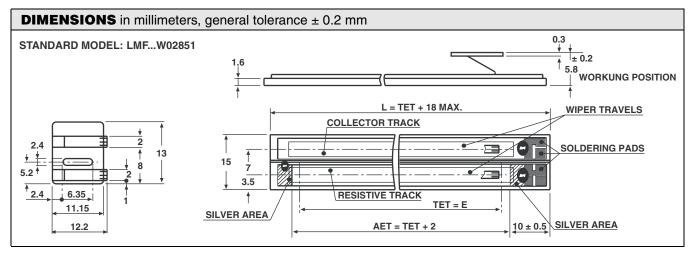
Dielectric Strength

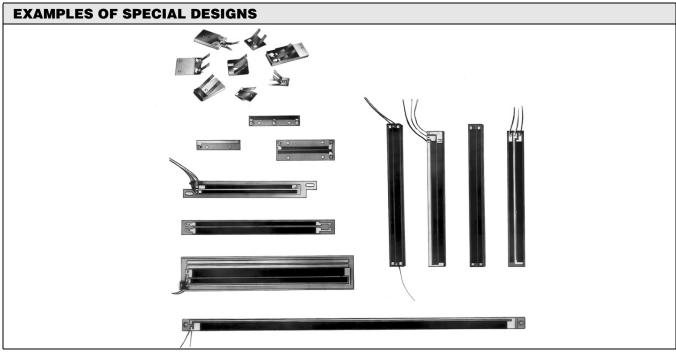
Series KIT LMF

Vishay Sfernice

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







| ORDERING INFORMATION/DESCRIPTION | | | | | | | |
|----------------------------------|-------|-----------------------------|-------------------------------------|---|---|-----------------------------|-------------|
| KIT | LM | F | 3 | D | 103 | W | 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 | Special feature code number | |

| SAP PART NUMBERING GUIDELINES | | | | | |
|-------------------------------|-----|-----------|-------------|------------------|--|
| LMF | 3 | D | 103 | W | |
| MODEL | TET | LINEARITY | OHMIC VALUE | SPECIAL FEATURES | |

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