

METAPOT LINEAR MEMBRANE SENSOR MTP-L



The linear membrane sensors are well suited for precision position sensing applications in a variety of industries. The MTP-L membrane sensors are non-wearing, easy to install and offer wide possibilities for integration, as well as an IP65 protection class.

FEATURES

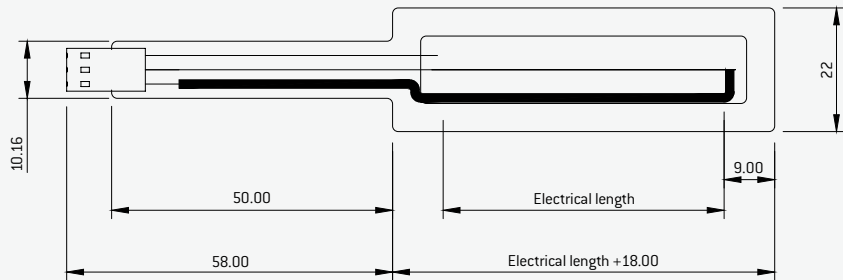
- Wide range of possibilities for integration
- Simple mounting

FEATURES

- Electrical measuring range of 30 – 500 mm
- Very flat

APPLICATIONS

- Medical technology
- Cylinder stroke measurement
- Flap control
- Valve control
- Accu driven devices



Spring loaded pin (optional)

Adhesive covered by protective paper (optional)

ELECTRICAL SPECIFICATIONS

Resistance range (Rn)	2.5 k Ω /100 mm distance
Resistance tolerance	\pm 30 %
Electrical distance	30 – 500 mm
Independent linearity	\pm 2 % **
Resolution	< 0.05 mm **
Maximum wiper current	5 mA in case of malfunction
Typical supply voltage	3 – 30 VDC
Wiper load	> 100 x Rn
Spring loaded pin	Mechanical wiper pin as M6 threaded part with spring-loaded ball

Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. * Others on request. ** Specifications may deviate according to temperature and installation conditions.

MECHANICAL SPECIFICATIONS

Lifetime	> 5 million cycles **
Travel speed	0.1 m/sec. **
Max. sensor thickness	0.5 mm
Actuation force	1 – 3 N **
Wiper	See mounting recommendation for MTP

AMBIENT CONDITIONS

Operating temperature	-25° C – +85° C **
Protection class	IP 65 according to DIN EN 60529, electrical connection and plug excluded

MATERIALS

Substrates	PET polyester film, FR4
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ELECTRICAL CONNECTION

Female crimp contacts, Crimpflex solder pads * (Poka Yoke)

SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection
E080200099	MTP	2.5K	100 mm	Female crimp contacts
H959000000	Spring loaded pin			