

METAPOT LINEAR MEMBRANE SENSOR MTP-L



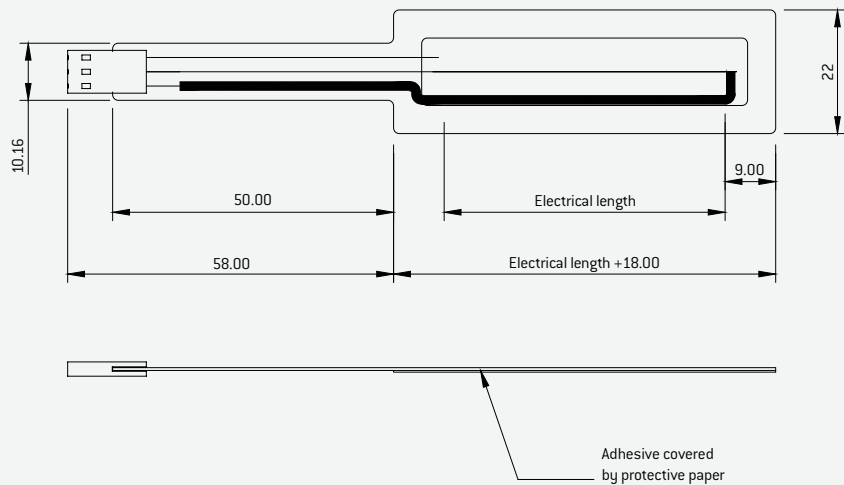
The linear membrane sensors are well suited for precision position sensing applications in a variety of industries. The MTP-L membrane sensors are non-wearing, easy to install and offer wide possibilities for integration, as well as an IP65 protection class.

FEATURES

- Wide range of possibilities for integration
- Simple mounting
- Electrical measuring range of 30 – 500 mm

APPLICATIONS

- Medical technology
- Cylinder stroke measurement
- Flap control
- Valve control



ELECTRICAL SPECIFICATIONS

Resistance range (Rn)	2.5 k Ω per 100 mm distance
Resistance tolerance	$\pm 30\%$
Electrical distance	30 – 500 mm
Independent linearity	$\pm 2\%$ **
Resolution	< 0,05mm **
Maximum wiper current	5 mA in case of malfunction
Wiper load	> 100 x Rn

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/s **
Max. sensor thickness	0.5 mm
Actuation force	1 – 3 N **
Wiper	See page 22

AMBIENT CONDITIONS

Operating temperature	– 25°C ... +85°C **
Protection class	IP65, electrical connection and plug excluded

MATERIALS

Substrates	PET polyester film, FR4
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ELECTRICAL CONNECTION

	Female crimp contacts, Crimpflex solder pads *
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SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection
E080200099	MTP	2,5K	100 mm	Female crimp contacts