

MEMBRANE SENSOR MTP-LX



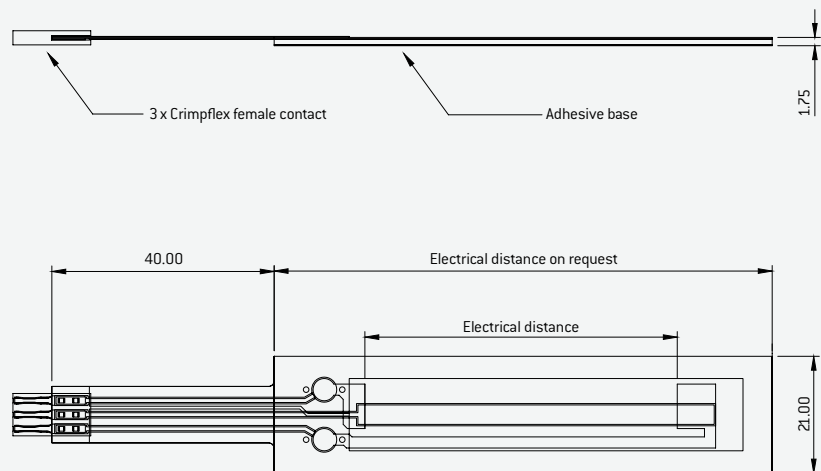
Together with the long lifetime, special features of the Metallux MTP-LX membrane sensors include excellent linearity of up to $\pm 0.3\%$ and temperature resistance up to 105°C . They are very robust, feature a flat shape and also offer resistance to dust, soiling and liquids.

FEATURES

- Protection class IP 67
- Resistant to dust, soiling and liquids

APPLICATIONS

- Mirror systems
- Adjustment systems in car and truck seats
- Controls for car windows and roofs
- Medical technology
- Solar panel positioning
- Robotic systems



ELECTRICAL SPECIFICATIONS

Resistance range (Rn)	4 k Ω per 100 mm distance *
Independent linearity	Up to $\pm 0.3\%$ **

MECHANICAL SPECIFICATIONS

Electrical distance	50 ... 500 mm in gradation of 50 mm
Element length	90 ... 550 mm
Position transducer (accessories)	Mechanical wiper pin as M6 threaded part with spring-loaded ball
Position transducer contact force	2 \pm 1 N *

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.

OPERATIONAL CONDITIONS

Temperature range	Standard: -25°C ... $+105^\circ\text{C}$, -40°C ... $+125^\circ\text{C}$ with limited performance specifications
Operational humidity	0 – 95% R.H.
Vibration acc. to DIN IEC 68T2-6	5 – 2000 Hz
Shock acc. to DIN IEC 68T2-27	50 g, 11 ms
Lifetime	25 x 10 ⁶ cycles
Travel speed	1.0 m/s
Protection class acc. to DIN EN 60529	IP 67, electrical connection and plug excluded
Options for fastening	Optional adhesive film on back

ELECTRICAL CONNECTION

Standard Flex with 40 mm and 3 female crimp contacts, customer-specific connectors upon request

SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection
E080400100	MTP-LX	4 k Ω *	106.4 mm	Female crimp contacts