

POTENTIOMETRIC CONDUCTIVE PLASTIC LINEAR POSITION SENSOR

WPL-OS (without push rod)



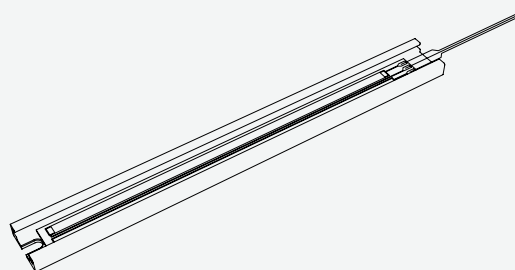
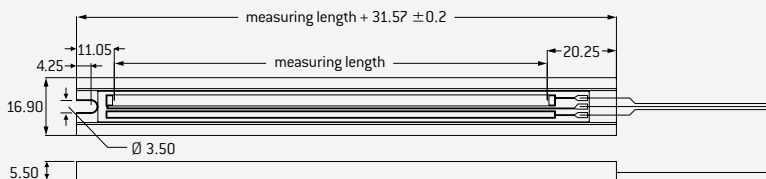
Our Metallux linear position sensor WPL-OS without push rod and using conductive plastic technology offers a wide range of integration possibilities as well as an easy installation. The electrical measuring range runs from 30 mm to 300 mm depending on requirements. With linearisation, it is possible to achieve a linearity of up to $\pm 0.25\%$.

FEATURES

- Wide range of possibilities for integration
- Easy installation

APPLICATIONS

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



ELEKTRISCHE DATEN

Resistance range (Rn)	5 k Ω / 100mm *
Resistance tolerance	$\pm 20\%$
Electrical stroke	30...300mm *
Independent linearity	$\pm 2\%$ untrimmed $\pm 0,25\%$ trimmed (Option) *
Resolution	Analogue, almost infinite
Maximum wiper current	5 mA in case of malfunction
Typical supply voltage	3 – 30 VDC
Wiper load	> 100 x Rn
Insulation resistance	10 G Ω at 500 VDC
Dielectric strength	700 VAC

MECHANICAL SPECIFICATIONS

Lifetime 10 million cycles

AMBIENT CONDITIONS

Operating temperature $-25^{\circ}\text{C} \dots 85^{\circ}\text{C}$

MATERIALS

Guidance Anodised aluminium

Connectors Flat litz wire (3x) *

Mechanical and electrical characteristics are customizable. Specifications are subject to change without notice. * Others on request.

SAMPLE ORDER

Part no.	Type series	Resistance range	Elect. measuring range	Elect. connection
E050245727	WPL-OS	5K	105 mm	3 x wire