

POTENTIOMETRIC CONDUCTIVE-PLASTIC LINEAR POSITION SENSOR

WPL-OS (without push rod)



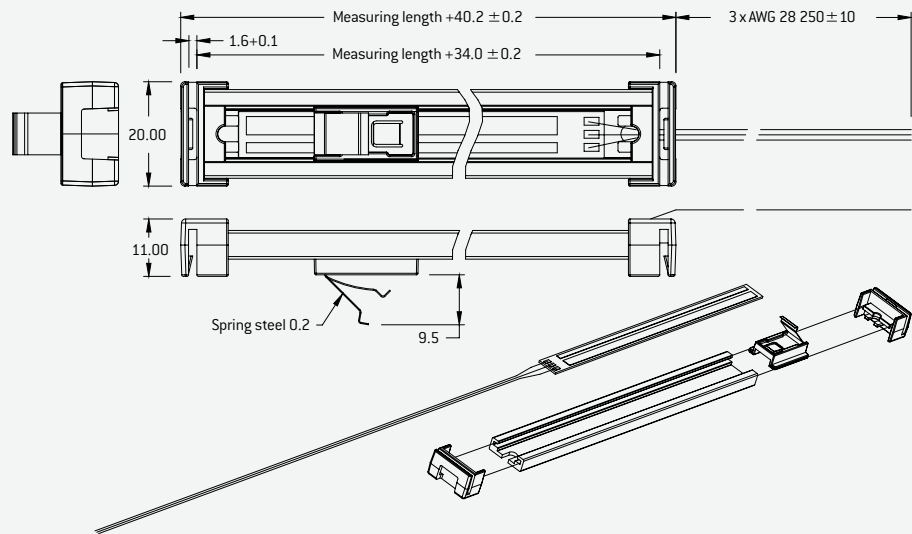
Our Metallux linear position sensor WPL-OS without push rod and using conductive plastic technology offers a wide range of integration possibilities as well as an easy installation. The electrical measuring range runs from 30 mm to 300 mm. With linearisation, it is possible to achieve a linearity of 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	nearly infinite
Maximum wiper current	5 mA in case of malfunction
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 flexible cable *

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	5 K	105 mm	3 x wire