POTENTIOMETER WPL-OS

WPL-OS is a position transducer with conductive plastic technology designed for absolute measurements. It consists of an open aluminium housing without push rod.

Customizations to meet specific requirements are available upon request.

Advantages
– Adjustable measuring range: 30–300 mm
– High thermal stability
– Long service life
– Good linearity and temperature resistance
– High resolution

Application examples
– Medical technology
– Cylinder stroke measurement
– Flap control
– Valve control



General data	
Sensor technology	Potentiometric
Type of contact	Wiper
Sensor type	Absolute measuring
Curcuit	As voltage divider

Electrical data	
Measuring range	30 to 300 mm, adjustable
Independent linearity	± 2 %, ± 0.25 % optional
Resolution	Analog, 0.05 mm achievable
Resistance range	5 kΩ, 10 kΩ
Resistance tolerance	± 20 %
Max. wiper current	5 mA in case of malfunction
Supply voltage	5 VDC typ., 3 to 30 VDC possible
Output signal	Analog 0 to 100 % of supply voltage

Mechanical data	
Dimensions	See drawings
Sensor thickness	5.5 x 17 mm
Travel speed	2 m/sec
Mounting	Glue
Lifetime	10 million cycles*

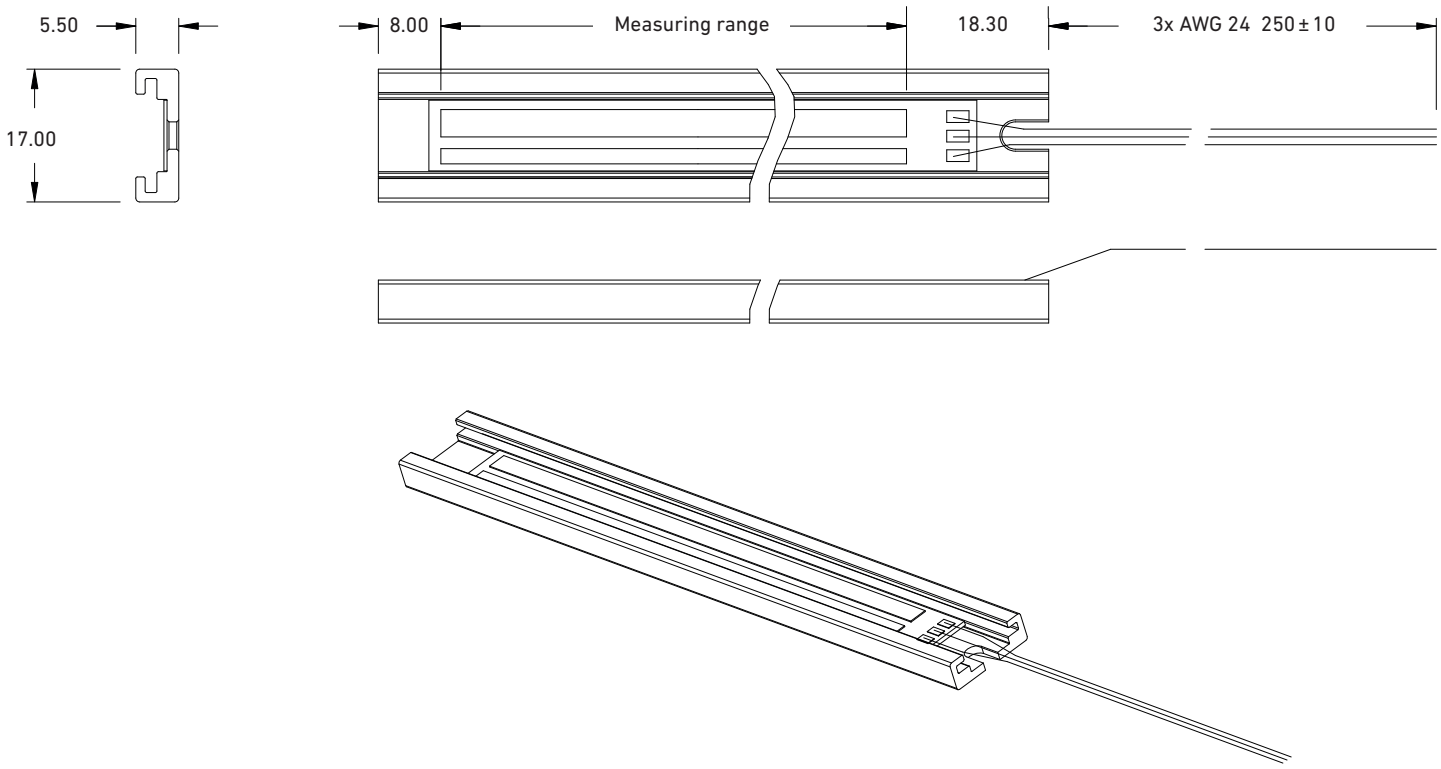
Environmental data	
Operating temperature	-25 °C to +85 °C
Protection class acc. to IEC 60529	–
EMC	Uncritical
ESD	Uncritical

Material	
Basic material	FR4 Others on request
Metallux wiper	Noble metal alloy

Electrical connection	
	Solder pad Cable Pitch 2.54 mm

* Only valid in conjunction with Metallux wipers and with correct application of the Metallux Design Rules.

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All dimensions in mm

Metallux cannot picture the customer's operating and application conditions and the customer's existing environmental influences.
We therefore recommend that you carry out your own investigations into the planned use of the products under the actual operating conditions.

We continuously improve our products and also update our data sheets regularly. In this respect, there may be changes in the specification.
These changes will apply to orders received by us from the time of the update, unless otherwise agreed.

Our products comply with Directive 2011/65/EU (RoHS) including Directive 2015/863/EU and Regulation (EC) No. 1907/2006 (REACH).