

Datasheet

General features

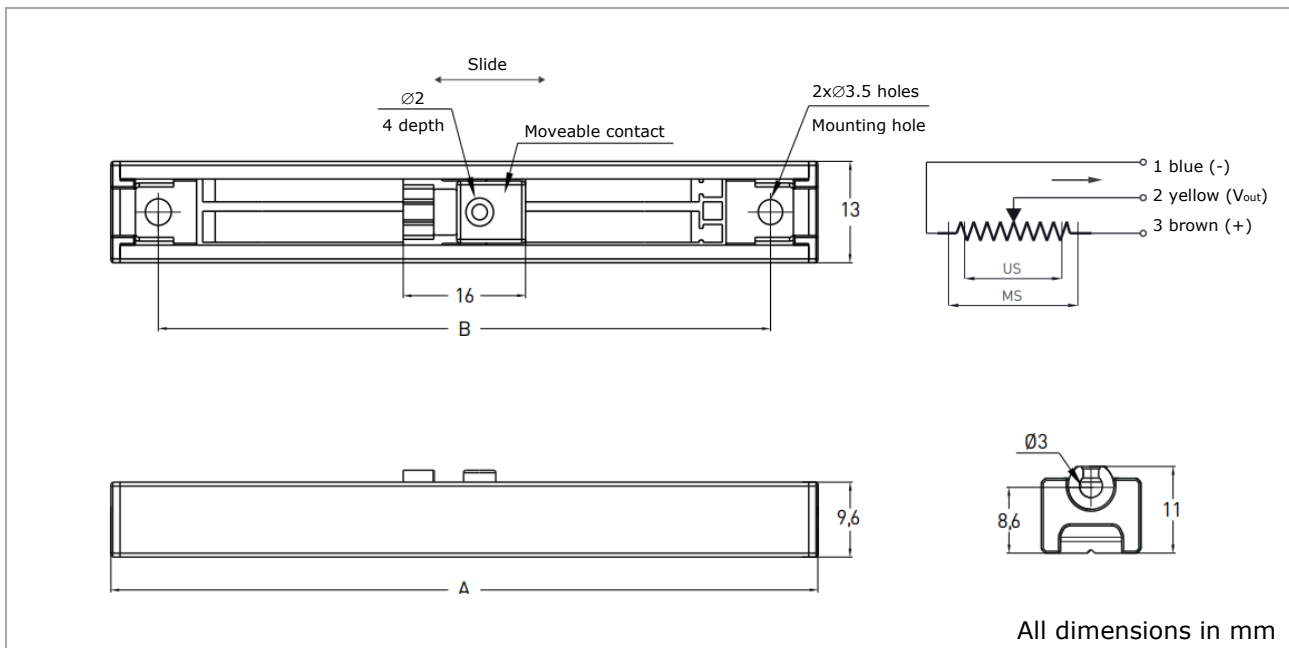
- Measuring range 25 to 150 mm
- Long mechanical life: 30 million movements
- Special guidance system
- Excellent repeatability: <math><0.01\text{ mm}</math>
- Infinitely variable resolution
- Resistance:
 - 2 kOhm: 25 ... 50 mm,
 - 5 kOhm: 75 ... 150 mm



Technical specifications

Measurement stroke	25 to 150 mm
Linearity	$\pm 0.1\%$ (130 - 150 mm), $\pm 0.2\%$ (75 - 129 mm), $\pm 0.5\%$ (<math><75\text{ mm}</math>)
Repeatability	<math><0.01\text{ mm}</math>
Resolution	Infinitely variable
Resistance	2 kOhm: 25 ... 50 mm, 5 kOhm: 75 ... 150 mm
Resistance tolerance	$\pm 20\%$
Load resistance	100 kOhm min.
Recommended consumption current	<math><1\ \mu\text{A}</math>
Permissible applied voltage	28 VDC max.
Electrical connections	0.25 m cable (standard)
Displacement speed	<math><5\text{ m/s}</math>
Mechanical life	30 million movement
Case dimensions	13 mm x 9,60 mm
Case material	Anodized aluminium
Mechanical fixing	Variable brackets
IP rating	IP65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Dimensions



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Measuring range

WLP-O-SQS1 (mm)	25	50	75	100	150
A±1	67.5	92.5	117.5	142.5	192.5
B±05	55	80	105	130	180

Ordering example

Type	WLP-O	-	SQS1	-	75	-	A	-	2K	-	0M25
Category											
S	= small Ohm (resistance)										
Type of construction											
Q	= quadratic										
Location of electrical connection											
S	= lateral										
Connection type											
1	= cable										
Measurement stroke (mm)	25 ... 150 mm (see table)										
Linearity (%)											
A	= ±%0.5 (<75 mm)										
B	= ±%0.2 (75 - 150 mm)										
Resistance (kOhm)											
2K	= 2 kOhm: 25 ... 50 mm										
5k	= 5 kOhm: 75 ... 150 mm										
Electrical connection											
0M25	= 0.25 meter cable (standard), open cable end										

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.