

Datasheet

General features

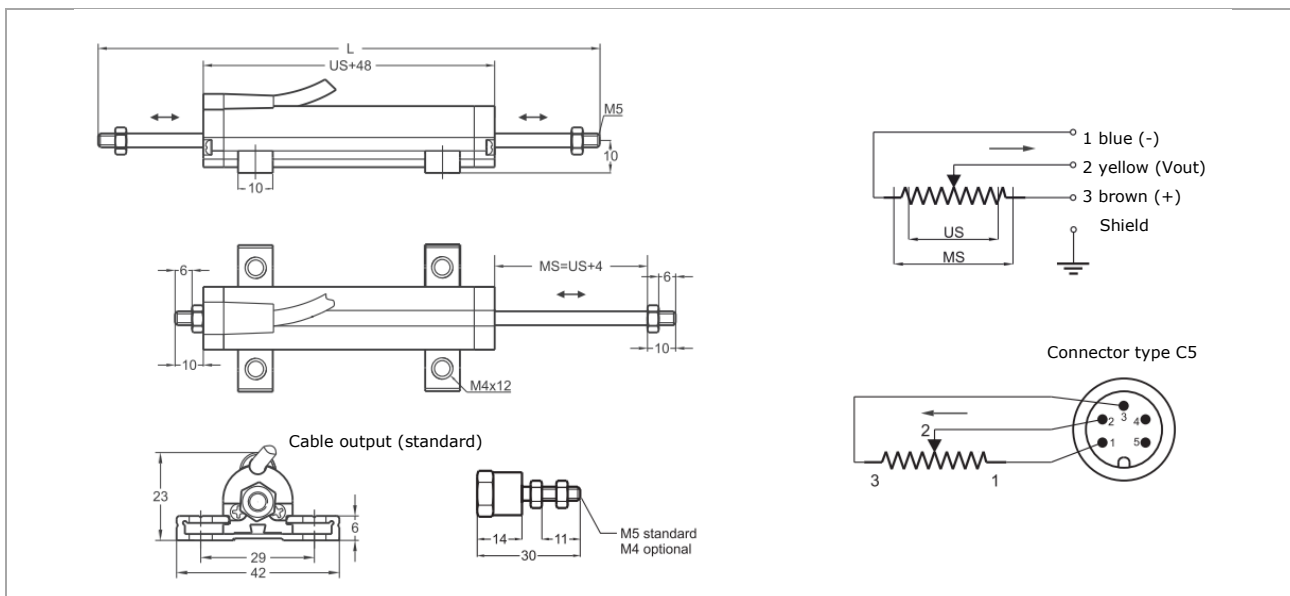
- Measuring range 10 to 200 mm
- Long mechanical life: 100 million movements
- Excellent repeatability: <math><0.01\text{ mm}</math>
- Infinitely variable resolution
- Resistance:
2 kOhm: 10 ... 50 mm,
5 kOhm: 75 ... 200 mm



Technical specifications

Measurement stroke	10 to 200 mm
Linearity	$\pm 0.1\%$ (130 - 200 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: 10 ... 50 mm, 5 kOhm: 75 ... 200 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	5 pin connector or 1m cable output (other lengths available)
Displacement speed	<math><5\text{ m/s}</math>
Mechanical life	100 million movement
Case dimensions	$\varnothing 18\text{ mm}$
Case material	Anodized aluminium
Rod diameter	$\varnothing 5\text{ mm}$
Rod material	Stainless steel
Mechanical fixing	Variable brackets
IP rating	IP65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Dimensions



WLP-K-SRS1-S2_DB_2023-03-27_EN

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Measuring range

WLP-K-SRS1/-S2 (mm)	10	25	50	75	100	125	150	175	200
US (Useful Stroke)	10	25	50	75	100	125	150	175	200
MS (Mechanical Stroke)	14	29	54	79	104	129	154	179	204
L (Total Length)	92	122	172	222	272	322	372	422	472

Ordering example

Type	WLP-K	-	SRS1	-	150	-	A	-	5K	-	1M
Category	S = small; Ohm (resistance)										
Type of construction	R = round										
Location of electrical connection	S = lateral										
Connection type	1 = cable 2 = connector										
Measurement stroke (mm)	10 ... 200 mm (see table)										
Linearity (%)	A = ±%0.5 (<75 mm) B = ±%0.2 (75 - 129 mm) C = ±%0.1 (130 - 200 mm)										
Resistance (kOhm)	2K = 2 kOhm: 10 ... 50 mm 5K = 5 kOhm: 75 ... 200 mm										
Electrical connection	1M = 1 meter cable (standard), open cable end 1M5 = 1.5 meter cable, open cable end 2M = 2 meter cable, open cable end C5 = 5 pin connector										

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