

Features

- Measuring range 10-400 mm
- For tight area applications
- Excellent repeability <0.01 mm
- Infinite resolution
- 2 kOhm: 10-50 mm
- 5 kOhm: 75-400 mm

RS PRO Motion Control Sensor

Linear Potentiometers

Stock No.. 100471, 100473, 100468, 100469, 100470

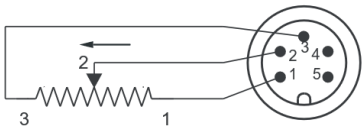
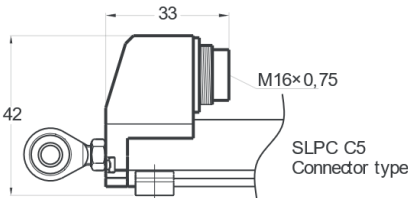
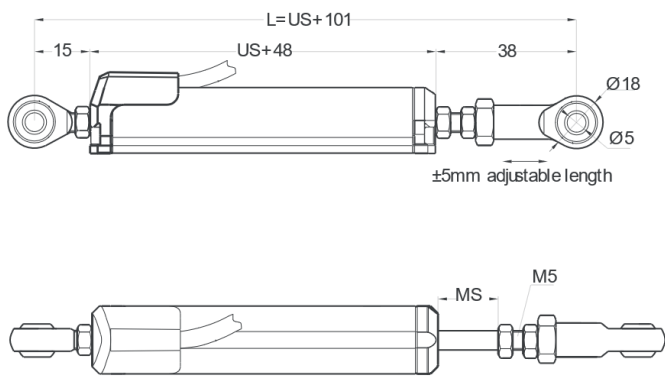


RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

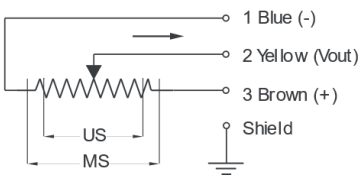
Product Description

Series designed as compact, highly robust, accurate linear position sensors, using potentiometric technology, up to 400 mm measuring length. Series linear position sensors provides absolute linear position feedback for wide range of industrial applications.

Mechanical Specifications



SLPC (mm)	10	25	50	75	100	125	150	175	200	250	300	350	400
US (Usefull stroke)	10	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechantal stroke)	13	28	53	78	103	128	153	178	203	253	303	353	403
L (Total Lenght)	111	116	151	176	201	226	251	276	301	351	401	451	501



General Specifications

Measurement stroke	10-400 mm
Linearity	<75 mm ($\pm 0.5\%$), 75-129 ($\pm 0.2\%$), 130-200 ($\pm 0.1\%$), >200 mm ($\pm 0.05\%$)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm: 10-50 mm 5 kOhm: 75-400 mm
Resistance tolerance	$\pm 20\%$
Load resistance	100 kOhm min.
Recommended wiper current	<1 μ A
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1m cable output
Displacement speed	<5 m/s
Mechanical life	100 million movements
Case dimensions	$\varnothing 18$ mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	$\varnothing 5$ mm
Mechanical fixing	Ball joints on the both sides
Protection level	IP 65 - EN 60529
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Approvals

Declarations	CE, UKCA, ROHS, REACH
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Articles In Series

RS PRO Part Number	MPN	Stroke length	Linearity (%)	Resistance (kOhm)	Connector / Cable
	0100471	50	± 0.5 FS	2K	1 meter cable
	0100473	75	± 0.2 FS	5K	1 meter cable
	0100468	100	± 0.2 FS	5K	1 meter cable
	0100469	125	± 0.2 FS	5K	1 meter cable
	0100470	150	± 0.1 FS	5K	1 meter cable

