

Features

- Measuring range 100-1950 mm
- -100 million movements life
- -<0.01 mm repatability
- -Infinite resolution
- -5 kOhm: 100-600 mm 10 kOhm: 650-1000 mm 20 kOhm: 1250-1950 mm

RS PRO Motion Control Sensor

Linear Potentiometers

Stock No.. 0100418, 0100419, 0100420



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.

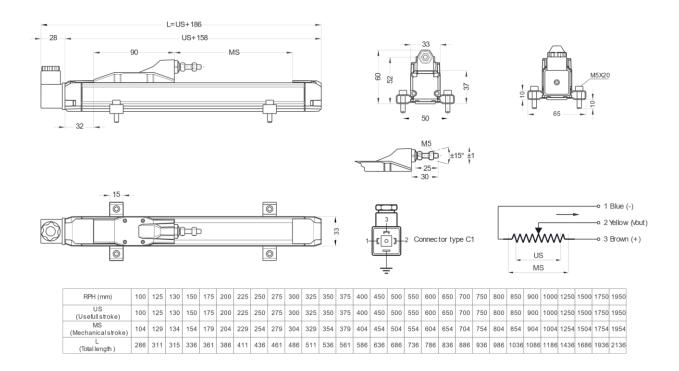


Product Description

Series designed as compact, highly robust, accurate linear position sensors, using potentiometric technology, up to 1950 mm measuring length.

Series linear position sensors provides absolute linear position feedback for wide range of industrial applications.

Mechanical Specifications



Motion Control Sensor



General Specifications

Measurement stroke	100-1950 mm			
Linearity	<75 mm (±%0.5), 75-129 (±%0.2), 130-200 (±%0.1), >200 mm (±%0.05)			
Repeatability	< 0.01 mm			
Resolution	Infinite			
Resistance	5 kOhm: 100-600 mm 10 kOhm: 650-1000 mm 20 kOhm: 1250-1950 mm			
Resistance tolerance	±%20			
Load resistance	100 kOhm min.			
Recommended wiper current	<1 μΑ			
Permissible applied voltage	28 VDC max.			
Electrical connections	4 pin connector			
Displacement speed	<1.5 m/s			
Mechanical life	100 million movements			
Case dimensions	33 mm x 33 mm			
Case material	Anodized aluminium			
Mechanical fixing	Variable brackets			
Protection level	IP 40 / upside down IP 53			
Operating temperature	-20°C +80°C			
Storage temperature	-30°C +90°C			

Approvals

Declarations	CE, UKCA, ROHS, REACH

Articles In Series

RS PRO Part Number	MPN	Stroke length	Linearity (%)	Resistance (kOhm)	Connector / Cable
	0100418	450	±%0.05 FS	5К	C1 & 1 meter cable
	0100419	500	±%0.05 FS	5К	C1 & 1 meter cable
	0100420	600	±%0.05 FS	5K	C1 & 1 meter cable