

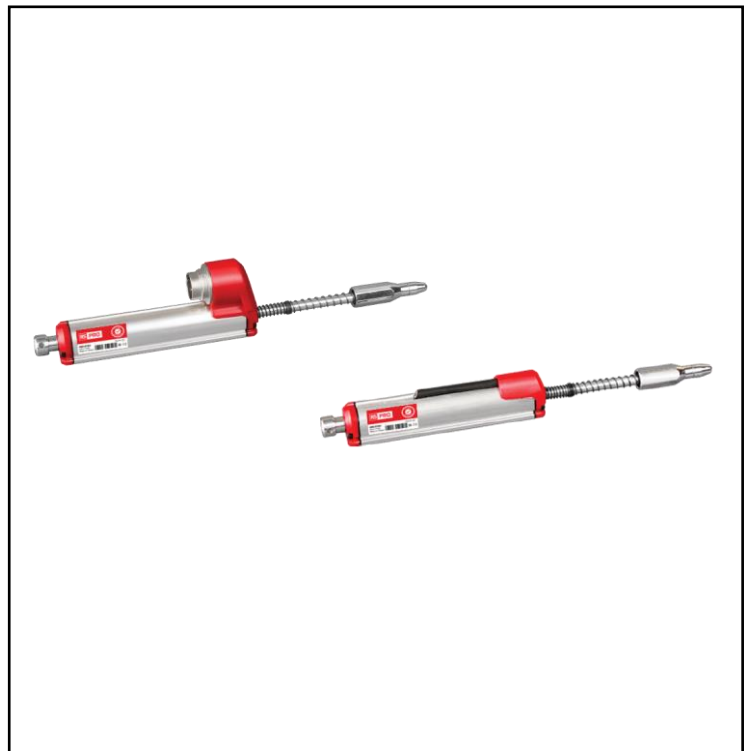
## Features

- Measuring range 10-100 mm
- Long mechanical life
- Excellent repeability <0.01 mm
- Infinite resolution
- 2 kOhm: 10-50 mm
- 5 kOhm: 75-100 mm

## RS PRO Motion Control Sensor

### Linear Potentiometers

Stock No.. 100405, 100406, 100474, 100407

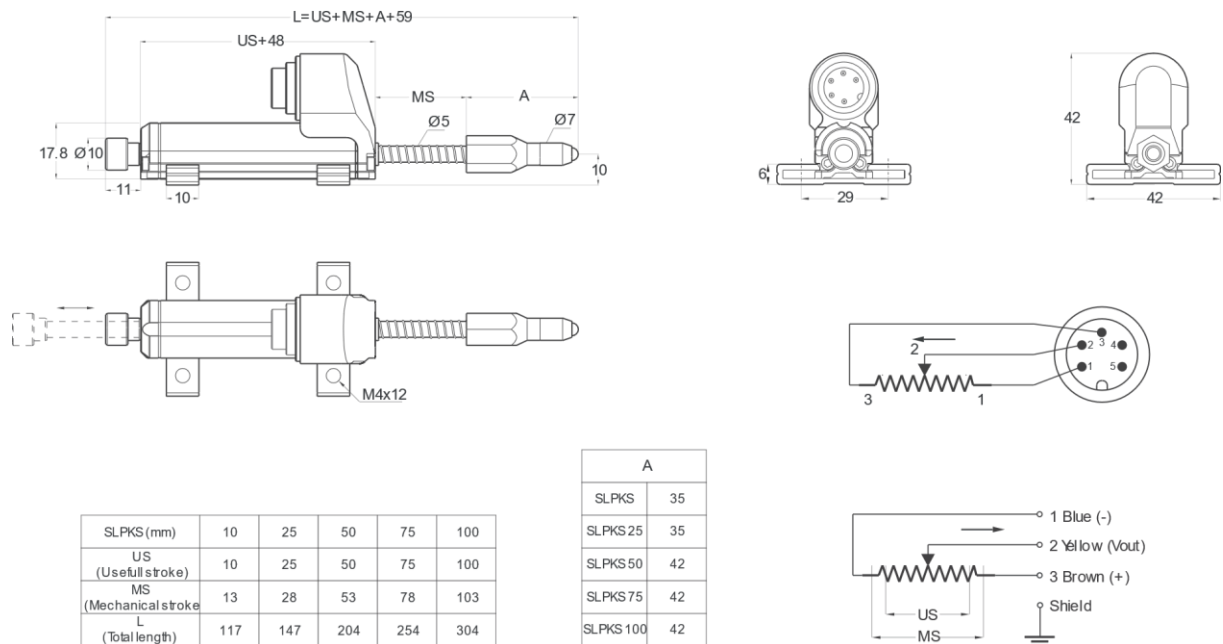


RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Series designed as compact, highly robust, accurate linear position sensors, using potentiometric technology, up to 100 mm measuring length.  
Series linear position sensors provides absolute linear position feedback for wide range of industrial applications.

## Mechanical Specifications



## General Specifications

Measurement stroke	10-100 mm
Linearity	<75 mm ( $\pm 0.5\%$ ), 75-100 ( $\pm 0.2\%$ )
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm: 10-50 mm 5 kOhm: 75-100 mm
Resistance tolerance	$\pm 20\%$
Load resistance	100 kOhm min.
Recommended wiper current	<1 $\mu$ 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	Variable brackets
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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## Type Code

RS PRO Part Number	MPN	Stroke length	Linearity (%)	Resistance (kOhm)	Connector / Cable
	0100405	10	$\pm 0.5$ FS	2K	C5
	0100406	25	$\pm 0.5$ FS	2K	C5
	0100474	50	$\pm 0.5$ FS	2K	C5
	0100407	50	$\pm 0.5$ FS	2K	1 meter cable