

Features

- Measuring range 175 mm
- 5 kOhm resistance
- 100 million movements life
- Excellent repeatability <0.01 mm
- Infinite resolution
- $\pm 0.1\%$ FS linearity

RS PRO Motion Control Sensors

RS Stock No.: 0359003

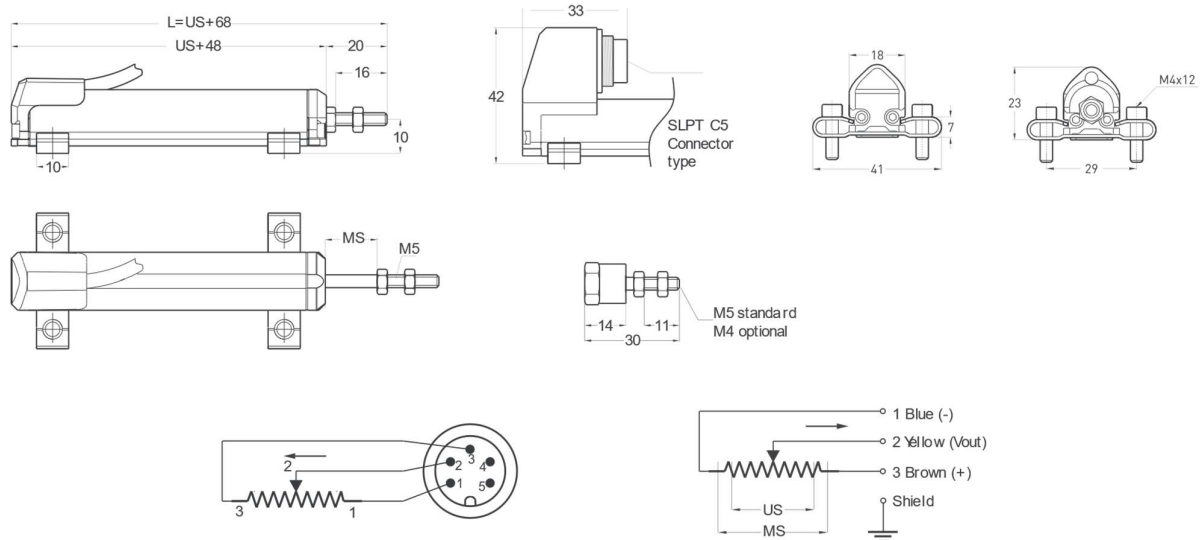


RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This product is designed as compact, high robust, accurate linear position sensor, using potentiometric technology, up to 175 mm measuring length. It provides absolute linear position feedback for wide range of industrial applications.

Mechanical Specifications



General Specifications

Encoder Technology	Linear Potentiometer
Measurement stroke	175 mm
Output Signal Type	Voltage Divider
Linearity	±0.1% FS
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	5 kOhm
Resistance tolerance	±%20
Load resistance	100 kOhm min.
Recommended wiper current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	2m cable output
Vibration	EN 60068-2-6:2013 5-2000 Hz 200 m/s ² (20g) 2h 30min each axis (x,y,z)
Shock	EN 60068-2-2:2007 500 m/s ² (50g) 11ms (x,y,z axis)
Displacement speed	<5 m/s
Mechanical life	100 million movements
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Variable brackets
IP Rating	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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