

Features

- Measuring range 450mm
- 5 kOhm resistance
- Oil drain channels
- Special teflon bearing system
- $\pm 0.05\%$ FS linearity

RS PRO Motion Control Sensors

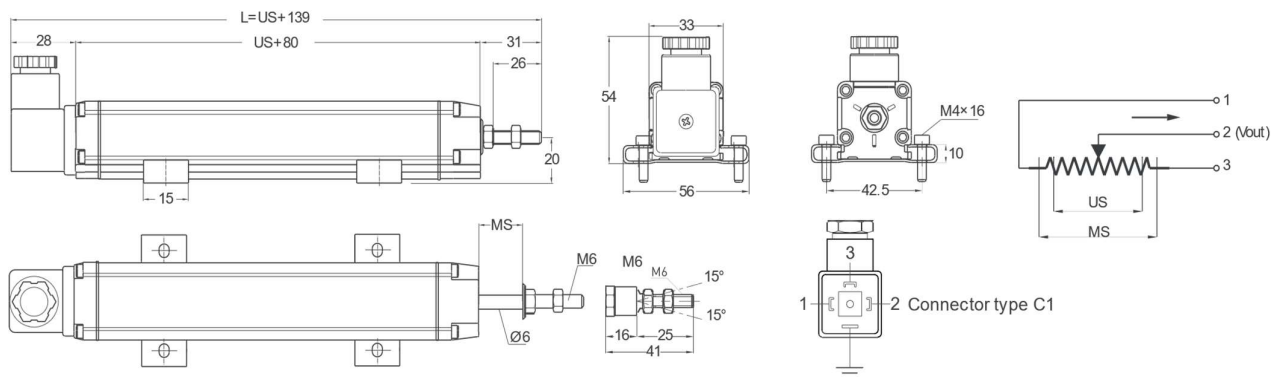
RS Stock No.: 0358998



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.

This product is designed as compact, high robust, accurate linear position sensor, using potentiometric technology, up to 450 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	450 mm
Output Signal Type	Voltage divider
Linearity	±%0.05 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	4 pin connector
Displacement speed	<5 m/s
Vibration	EN 60068-2-6 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) 11 ms (x,y,z axis)
Mechanical life	100 million movements
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø6 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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Similar Products

RS PRO Part Number	Stroke length	Linearity (%)	Resistance (kOhm)	Connector / Cable
0358993	150	±%0.1 FS	5K	C1 & 1 meter cable
0358994	175	±%0.05 FS	5K	C1 & 1 meter cable
0358995	250	±%0.05 FS	5K	C1 & 1 meter cable
0358997	325	±%0.05 FS	5K	C1 & 1 meter cable