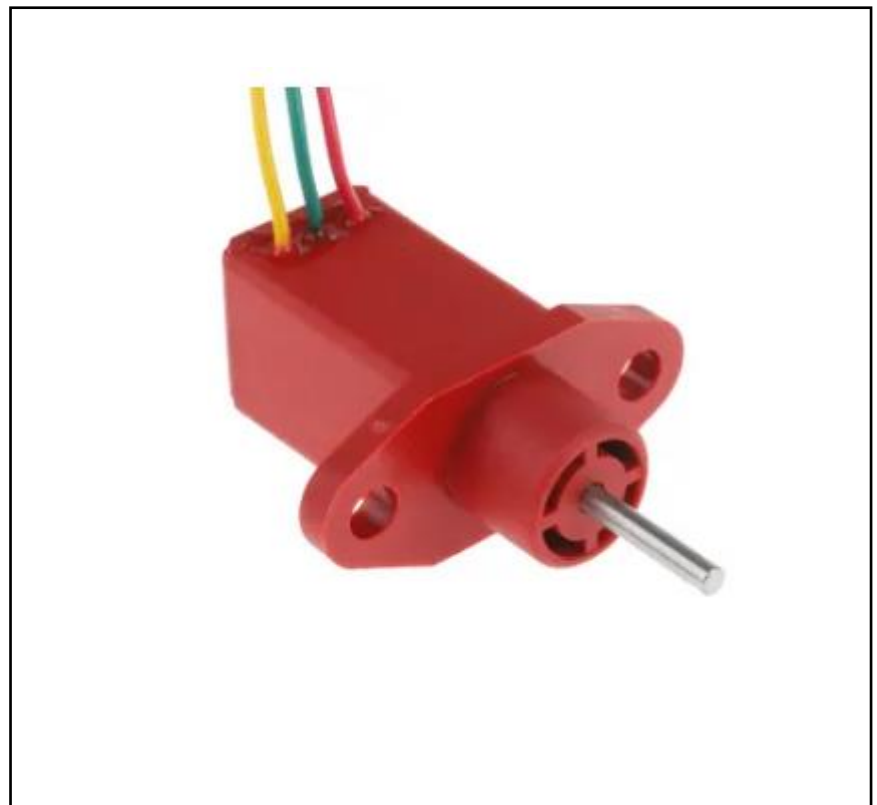


FEATURES

- Glass-filled nylon bodied sensor with 10mm electrical stroke and a spring-loaded plunger
- For best results, use as a potential divider (not variable resistor) and buffer the resulting output with a high impedance amplifier
- Output Smoothness 0.5 % (Max)
- Resistance 5 k Ω linear ($\pm 20\%$)
- Connection via 0.2m flying leads
- Linearity of $\pm 2\%$ & Temperature Coefficient of ± 200 ppm / $^{\circ}\text{C}$
- High performance, cost effective potentiometers, with long endurance life
- Protected against engine compartment environment
- Flying leads and connectors to customer's specification

RS PRO Conductive Plastic Potentiometer with an 3 mm Dia. Shaft - 5k Ω , $\pm 20\%$, Linear, Panel Mount

RS Stock No.: 317-780



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

Brought to you by RS PRO, these rotary conductive potentiometers offer a range of resistance options suitable for various applications. Each model is perfect for applications requiring constant use. Comes complete with a 1.25 mm mechanical travel at either end. Perfect for use on PCB boards, automotive or other electronics. All models are highly reliable and excellent quality.

General Specifications

Potentiometer Type	Conductive Rotary
Standard Resistance Range	500 ohms to 10K
Maximum Resistance	5kohm
Tolerance	±20%
Linearity	±2%
Number of Turns	1
Electrical Taper	Linear
Element Material	Conductive Plastic
Actuator Type	Linear Shaft
Applications	<p>Audio control: Both linear, and rotary potentiometers, are used to control audio equipment for changing the loudness and other audio related signals.</p> <p>Television: They are used to control the picture brightness, colour response and contrast.</p> <p>Motion control: In order to create a closed-loop control, potentiometers are used as position feedback devices known as a servomechanism.</p> <p>Transducers: As these give large output signals, they find applications in designing of displacement transducers</p>

Electrical Specifications

Output Smoothness	0.5 % (Max)
Termination Style	Wire Lead
Insulation Resistance	>10M ohms at 500V
Isolation Voltage	500V ac r.m.s

Mechanical Specifications

Shaft Diameter	3mm
Mounting Type	Panel Mount
Rotational Life	3,000,000 cycles
Hysteresis	<0.3%
Effective Travel	10mm +/-0.5mm
Mechanical Travel	12.5mm max.
Operational Force	200-750g

Operation Environment Specifications

Temperature Coefficient	± 200 ppm / °C
Operating Temperature	-40°C to + 130°C

Approvals

Compliance/Certifications	2011/65/EU and 2015/863
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