

Linear Position Sensor

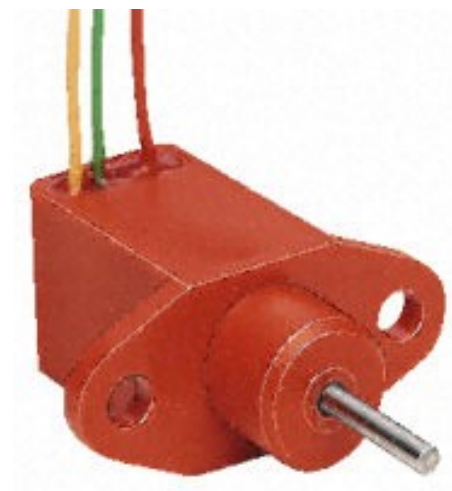
LPS Series

Features

- Glass filled nylon bodied sensor
- 10mm electrical stroke and spring loaded plunger
- Mechanical endurance life 3,000,000 cycles
- Tolerance $\pm 20\%$
- Hysteresis $< 3.0\%$
- Insulation Resistance $> 10\text{M Ohms}$ at 500V
- Fitted with return springs

Benefits

- Highly reliable
- Robust
- Simple to use
- Long life
- Easy to install
- Proven technology
- Easily customized



Electrical Specifications

Standard resistance Range	1k ohms to 10k
Tolerance	$\pm 20\%$ ($\pm 10\%$ available)
Independent Linearity	$\pm 2\%$
Temperature Characteristic	0 to 200ppm/ $^{\circ}\text{C}$ max
Output Smoothness	1.0%
Operating Temperature	-40 to + 130 $^{\circ}\text{C}$
Isolation Voltage	500V a.c (r.m.s)
Insulation Resistance	$> 10\text{M ohms}$ at 500V
Hysteresis	$< 0.3\%$
Effective Travel	10mm $\pm 0.5\text{mm}$
Mechanical Travel	12.5mm max
Operational Force	200-750g All potentiometers are fitted with a spring return
Mechanical Endurance Life	3,000,000 cycles*

Applications

- Transport
- Marine
- Agriculture
- Machinery
- Machine Tools
- Automotive
- Welding
- Telehandling
- Electrical Chairs

Ordering Guide

Part Number	LPS-1K-29 LPS-1K-44	LPS-5K-29 LPS-5K-44	LPS-10K-29 LPS-10K-44
Standard resistance Range	1000 Ohms	5000 Ohms	10,000 Ohms
Shaft Length	29 or 44	29 or 44	29 or 44

Schematic

