

# Linear Position Sensor

LPS Series

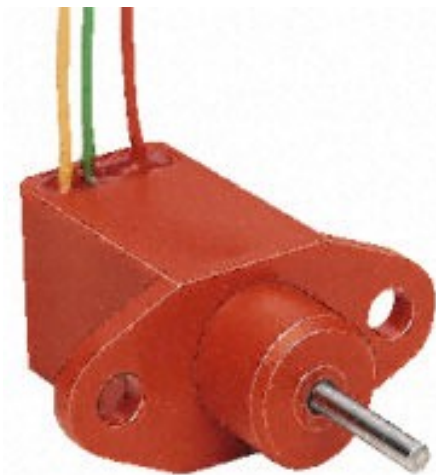


## Features

- 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  $> 10M$  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/ $^{\circ}C$ max
Output Smoothness	1.0%
Operating Temperature	-40 to + 130 $^{\circ}C$
Isolation Voltage	500V a.c (r.m.s)
Insulation Resistance	$> 10M$ ohms at 500V
Hysteresis	$< 0.3\%$
Effective Travel	10mm $\pm 0.5$ 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*

### General Note

SST Sensing Ltd reserves the right to make changes in product specifications without notice or liability. All information is subject to SST's own data and is considered accurate at time of going to print.



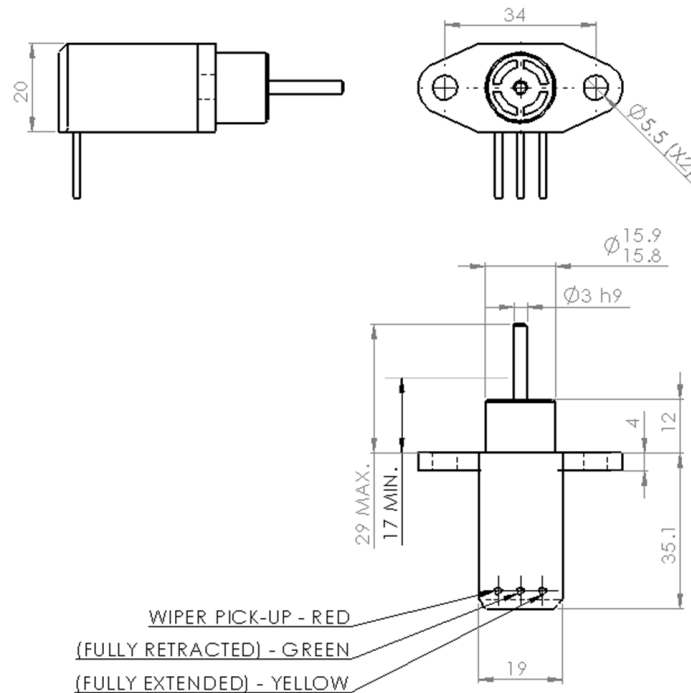
## Applications

- 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



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### WARNING

It is the customer's responsibility to ensure that this product is suitable for use in their application. For technical assistance or advice, please email us: [info@sstsensing.com](mailto:info@sstsensing.com)

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