

# LPPS Series Linear Potentiometer Position Sensor with Rod Ends

## Features

- Compact lightweight design
- Cost-effective measuring system
- Stroke lengths from 25 to 300 mm (1 to 12 inches)
- Industrial duty, liquid and corrosion resistant
- Rod end joints for ease of mounting

## Applications

- Motorsport and Automotive R&D Testing
- Industrial Test Stands
- Factory Automation



## Overview

The Sensor Connection LPPS series Linear Potentiometer Position Sensor with Rod End Joints are used to monitor and track the linear motion or position of a target. These ruggedized sensors are ideal for use in industrial and laboratory applications including automotive R&D, motorsports, industrial, motion control, medical, military and aerospace.

Resistive potentiometric element is made from carbon. The output is ratiometric; from 0% to 100% of excitation voltage. The sensor is provided with swivel rod ends for self-alignment and ease of mounting.

The LPPS series sensor is made from industrial duty materials for resistance to dust, temperature, shock, and vibration.

## Specifications

<b>Output:</b>	0 to 100% of Input Voltage (potentiometer circuit)
<b>Linearity Error:</b>	(refer to chart on Page 2 for Linearity Error)
<b>Resolution:</b>	Infinite
<b>Repeatability:</b>	0.01 mm (0.0004 inch)
<b>Element Type:</b>	Carbon
<b>Max Operating Speed:</b>	5 m/S (16 ft/S)
<b>Operating Current:</b>	Input Voltage / Potentiometer Resistance Value (refer to chart on Page 2 for Resistance Value)
<b>Operating Temperature:</b>	-40 to +95°C (-40 to +203°F)
<b>Temperature Coefficient:</b>	≤ +/- 0.03% of FS / °C
<b>Shock Rating:</b>	50g (single hit) / IEC68-2-29
<b>Vibration Rating:</b>	20g / IEC68-2-6
<b>IP Rating:</b>	IP64

