LPPS-36 Series Linear Potentiometer Position Sensor with Rod Ends

Features
- Robust design
- Cost-effective measuring system
- Stroke lengths from 350 to 700 mm (14 to 28 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
LPPS-36 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 conductive plastic. 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-36 series sensor is made from industrial duty materials for resistance to dust, temperature, shock, and vibration.

Specifications

Output: 0 to 100% of Input Voltage (potentiometer circuit)

Linearity Error: ±0.25% (typical), ±0.50% (max)
Resolution: Infinite
Repeatability: 0.01 mm (0.0004 inch)

Element Type: Conductive Plastic
Max Operating Speed: 5 m/S (16 ft/S)

Operating Current: Input Voltage / Potentiometer Resistance Value (refer to chart on Page 2 for Resistance Value)

Operating Temperature: -40 to +95°C (-40 to +203°F)
Temperature Coefficient: ≤ +/- 0.03% of FS / °C

Shock Rating: 50g (single hit) / IEC68-2-29
Vibration Rating: 20g / IEC68-2-6
IP Rating: IP61
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring Range</th>
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<tbody>
<tr>
<td>LPPS-36</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>350 mm [14 inch]</td>
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<tr>
<td>400</td>
<td>400 mm [16 inch]</td>
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<tr>
<td>450</td>
<td>450 mm [18 inch]</td>
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<tr>
<td>500</td>
<td>500 mm [20 inch]</td>
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<tr>
<td>550</td>
<td>550 mm [22 inch]</td>
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<tr>
<td>600</td>
<td>600 mm [24 inch]</td>
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<tr>
<td>650</td>
<td>650 mm [26 inch]</td>
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<tr>
<td>700</td>
<td>700 mm [28 inch]</td>
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</tbody>
</table>

Ordering Information

Wiring Pin Out

Integral Cable
- +V (Brown)
- Signal (Black)
- 0V (Blue)

IMPORTANT!
DO NOT CONNECT THE BLACK WIRE TO POWER SUPPLY
THIS WILL CAUSE DAMAGE TO THE SENSOR

Ordering Example

LPPS-36-500: 0 to 500 mm [20 inch] measuring range