LP-22 Series
Linear Potentiometer

Linear Potentiometer Designed specifically for the factory automation industry

The LP-22 series linear potentiometer is a cost effective solution for factory automation linear position sensing applications like robotic motion control, X-Y table position feedback, flow control valve position, suspension travel, press and die position, injection molding machines, and mil/aero test stand applications. This 3-wire resistive film sensor is available in stroke lengths from 25 to 300 mm, with a maximum linearity error of 0.1% of full scale. The sensor is provided with swivel rod eyes at each end for self-alignment and easy mounting. A 22 mm diameter anodized aluminum housing rated IP-64 protects the unit from airborne contaminants, and the sensor is rugged enough to withstand the typical shock and vibration environments of industrial shop floors.

Features:
- Full ranges from 25 to 300 mm (1 to 12 inches)
- 1 m long, 3-conductor cable
- Self-aligning swivel rod eyes on both ends
- 22 mm OD anodized aluminum housing

Environmental Specifications:
- Operating temperature: -40 to 150 °C
- Temperature coefficient: <1.5 ppm/°C
- Shock: 50 g (IEC 68-2-29, single hit)
- Vibration: 20 g (IEC 68-2-6)
- Environmental protection: IEC IP-64

Performance Specifications:
- Input current: ≤12 mA
- Resolution: Infinite
- Output range: 0 to 100% of input
- Repeatability: 0.01 mm (0.0004 inch)
- Max operating speed: 5 m/s

For use in:
- Factory Automation
- Robotic Motion Control
- X/Y Table position feedback
- Mil/aero test stands

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v1.3 Rev. 022515
LP-22 Series

Configuration Information:

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<tr>
<td>Range (mm)</td>
<td>25</td>
<td>50</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
<td>300</td>
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<tr>
<td>Resistance ±10%</td>
<td>1 k</td>
<td>2 k</td>
<td>4 k</td>
<td>5 k</td>
<td>5 k</td>
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<tr>
<td>Max input Voltage</td>
<td>12</td>
<td>24</td>
<td>24</td>
<td>36</td>
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<tr>
<td>Non-linearity %FS</td>
<td>±0.10</td>
<td>±0.10</td>
<td>±0.08</td>
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<td>±0.06</td>
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<td>Body length A (mm)</td>
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<td>104</td>
<td>154</td>
<td>204</td>
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<td>Dimension B (mm)</td>
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<td>133</td>
<td>183</td>
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<td>Weight (grams)</td>
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<td>155</td>
<td>190</td>
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<td>270</td>
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<td>Rod eye c-c (mm)</td>
<td>139</td>
<td>164</td>
<td>214</td>
<td>264</td>
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<td>364</td>
<td>414</td>
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Ordering Information:

Wiring Diagram

![Wiring Diagram]

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