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.

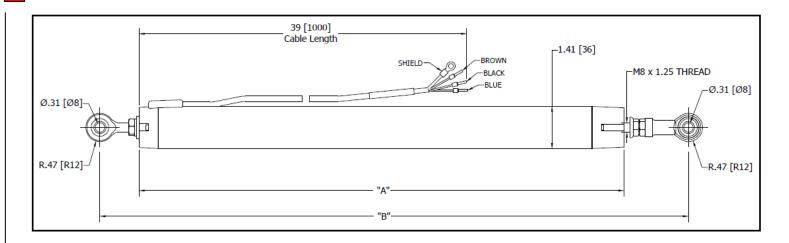
Specifications

Output:	0 to 100% of Input Voltage (potentiometer circuit)
Linearity Error:	(refer to chart on Page 2 for Linearity Error)
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:	IP64



42690 Woodward Avenue, Suite 200 • Bloomfield Hills, MI 48304 USA Phone: 248-636-1515 • Fax: 248-636-4969 Email: Sales@HGSIND.com • Web: www.HGSIND.com

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Specifications

	LPPS-36- 350	LPPS-36- 400	LPPS-36- 450	LPPS-36- 500	LPPS-36- 550	LPPS-36- 600	LPPS-36- 650	LPPS-36- 700
Nominal Stroke Length (inch) [mm]	14 [350]	16 [400]	18 [450]	20 [500]	22 [550]	24 [600]	26 [650]	28 [700]
Mechanical Stroke Length (inch) [mm]	14.1 [357]	16.0 [407]	18.0 [457]	19.9 [507]	21.9 [557]	23.6 [607]	25.6 [657]	27.5 [707]
Resistance ± 20% (Ω)	5.0K	5.0K	5.0K	5.0K	5.0K	10.0K	10.0K	10.0K
Max Input Voltage (VDC)	36	36	36	36	36	36	36	36
Non-Linearity, Full Stroke	±0.08%	±0.08%	±0.08%	±0.08%	±0.08%	±0.08%	±0.08%	±0.08%
Dimension 'A' (inch) [mm]	17.2 [438]	19.2 [488]	21.1 [538]	23.2 [588]	25.1 [638]	27.1 [688]	29.1 [738]	31.0 [788]
Dimension 'B' (inch) [mm]	20.5 [522]	22.5 [572]	24.5 [622]	26.4 [672]	28.4 [722]	30.4 [772]	32.3 [822]	34.3 [872]

Ordering Information

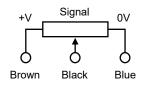
Model	Measuring Range					
LPPS-36	-000					
	350 400 450 500 550 600 650 700	350 mm 400 mm 500 mm 550 mm 600 mm 650 mm 700 mm	[14 inch] [16 inch] [18 inch] [20 inch] [22 inch] [24 inch] [26 inch] [28 inch]			

Ordering Example

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

Wiring Pin Out

	Integral Cable
DC Power In	Brown
Output	Black
Ground	Blue



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



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