LPPS-22 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

LPPS-22 series Linear Potentiometer Position Sensors 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-22 series sensor is made from industrial duty materials for resistance to dust, temperature, shock, and vibration.

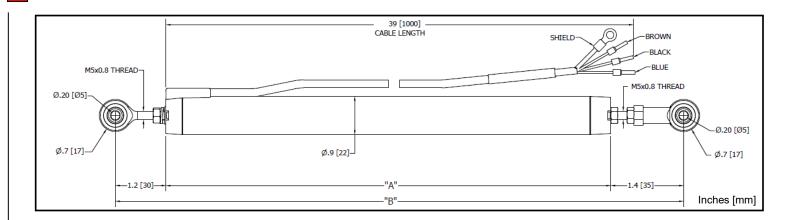
Specifications

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			



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Specifications

	LPPS-22- 025	LPPS-22- 050	LPPS-22- 075	LPPS-22- 100	LPPS-22- 125	LPPS-22- 150	LPPS-22- 175	LPPS-22- 200	LPPS-22- 250	LPPS-22- 300
Measuring Range (inch) [mm]	1 [25]	2 [50]	3 [75]	4 [100]	5 [125]	6 [150]	7 [175]	8 [200]	10 [250]	12 [300]
Mechanical Stroke Length (inch) [mm]	1.1 [28]	2.1 [53]	3.1 [78]	4.1 [103]	5.1 [128]	6.1 [153]	7.1 [178]	8.1 [203]	10.1 [253]	12.1 [303]
Resistance ± 20% (Ω)	2.0K	5.0K								
Max Input Voltage (VDC)	12	24	24	24	36	36	36	36	36	36
Non-Linearity, Full Stroke	±0.10%	±0.10%	±0.10%	±0.08%	±0.08%	±0.08%	±0.08%	±0.06%	±0.06%	±0.06%
Dimension 'A' (inch) [mm]	3.1 [79]	4.1 [104]	5.1 [129]	6.1 [154]	7.1 [179]	8.0 [204]	9.0 [229]	10.0 [254]	12.0 [304]	13.9 [354]
Dimension 'B' (inch) [mm]	5.7 [144]	6.7 [169]	7.6 [194]	8.6 [219]	9.6 [244]	10.6 [269]	11.6 [294]	12.6 [319]	14.5 [369]	16.5 [419]
Weight (grams)	115	130	145	165	180	190	205	215	245	270

Ordering Information

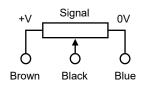
Model	Measuring Range					
LPPS - 22	-000					
	025 050 075 100 125 150 200 250 300	25 mm 50 mm 75 mm 100 mm 125 mm 150 mm 200 mm 250 mm	[1 inch] [2 inch] [3 inch] [4 inch] [5 inch] [6 inch] [8 inch] [10 inch] [12 inch]			

Ordering Example

LPPS-22-100: 0 to 100 mm [4 inch] measuring range

Wiring Pin Out

	Integral Cable
DC Power In	Brown
Signal 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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