

LP-22 Series Linear Potentiometer

Linear Potentiometer designed for the factory automation industry



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

The LP-22 series linear potentiometer is a cost effect 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. The 3-wire resistive film sensor is available in stroke lengths from 25 to 300 mm, with a maximum linearity error of 2.5% 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 to IP61 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)
- Self-aligning swivel rod eyes on both ends
- 1 m long, 3 conductor cable
- 22 mm OD anodized aluminum housing

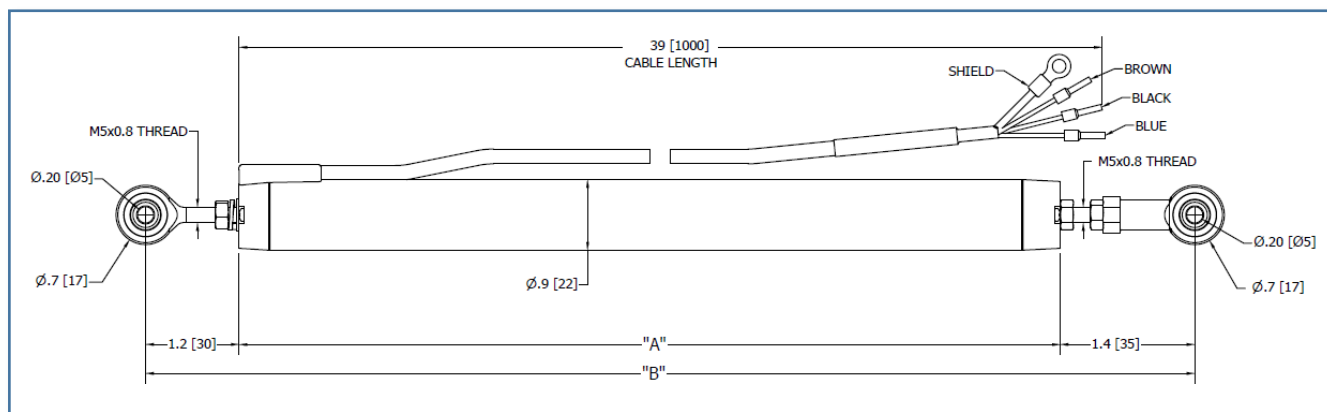
Specifications:

Input current	≤12 mA
Resolution	Infinite
Output range	0 to 100% of input
Repeatability	0.01mm (0.0004 inch)
Max operating speed	5 m/s
Linearity	≤ ± 2.5% of FS (typical) ±1% max
Operating Temperature	-40 - 95°C (-40 to 203°F)
Temperature Coefficient	≤±0.03% of FS/°C
Shock Rating	50g single hit , IEC 68-2-29
Vibration Rating	20g, IEC68-2-6
IP Rating	IP61

All specifications are subject to change without notice.

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LP-22 Series



Configuration Information:

Product	LP-22-025	LP-22-050	LPPS-22-100	LPPS-22-150	LPPS-22-200	LPPS-22-250	LPPS-22-300
Electrical Measuring Range (inch) [mm]	0.9 [25]	1.9 [50]	3.9 [100]	5.9 [150]	7.8 [200]	9.8 [250]	11.8 [300]
Mechanical Stroke Length (inch) [mm]	1.1 [28]	2.0 [53]	4.0 [103]	6.0 [153]	8.0 [203]	9.9 [253]	11.9 [303]
Resistance $\pm 20\%$ (Ω)	2.0K	5.0K	5.0K	5.0K	5.0K	5.0K	5.0K
Max Input Voltage (VDC)	12	24	24	24	24	24	24
Dimension 'A' (inch) [mm]	3.1 [79]	4.1 [104]	6.1 [154]	8.0 [204]	10.0 [254]	12.0 [304]	13.9 [354]
Dimension 'B' (inch) [mm]	5.7 [144]	6.7 [169]	8.6 [219]	10.6 [269]	12.6 [319]	14.5 [369]	16.5 [419]
Weight (grams)	115	130	165	190	215	245	270

Ordering Information:

Series	Body Diameter	Range, Metric
LP-	XX-	XXX-
LP	22- 22 mm	025- 25 mm
		050- 50 mm
		100- 100 mm
		150- 150 mm
		200- 200 mm
		250- 250 mm
		300- 300 mm

Wiring Table:

Function	Cable Color
DC power input	Brown
Ground	Blue
Analog Output	Black

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