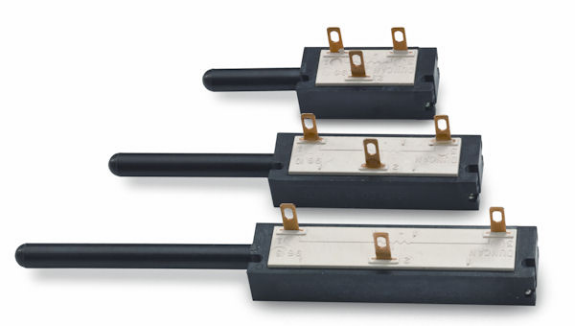
9600 Series
Spring Return Linear Position Sensor

BEI Sensors



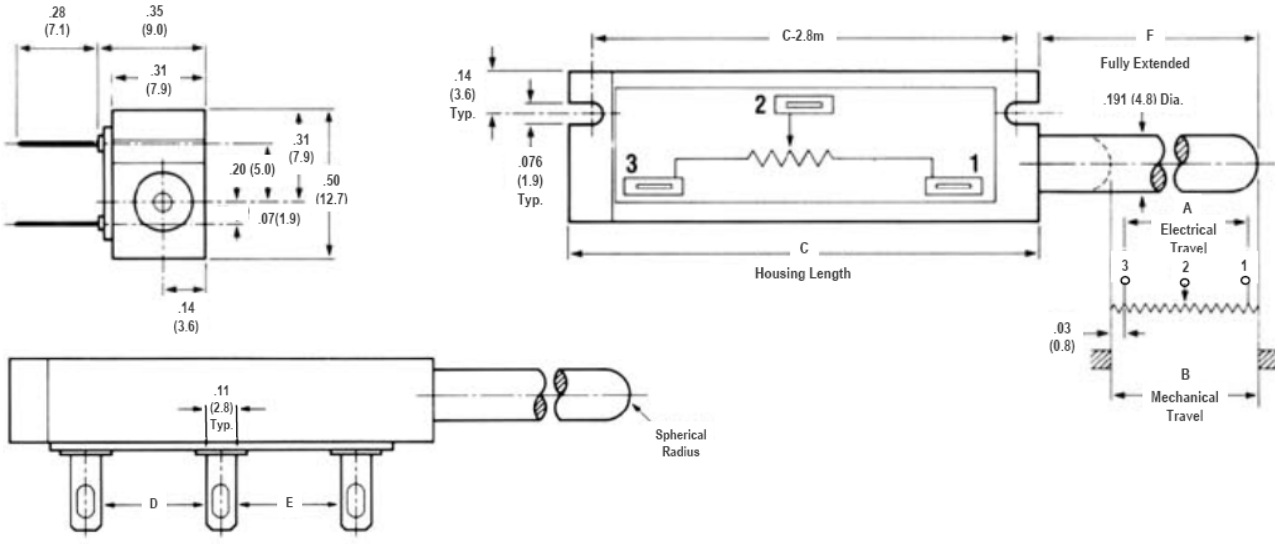
Designed for a variety of space-limited feedback applications that require high accuracy. The BEI Sensors 9600 Series Linear Position Sensor is ideally suited for use where reliability in a harsh operating environment is a primary consideration.

Industrial, vehicular, appliance, machine tool and robotic applications benefit from the unit's high temperature stability. The solderable terminal tabs, suitable for use with .110" (2.8mm) PDQ styled crimped wiring lugs, and durable spring-loaded plunger, make installation and operation easy.

The 9600 Series is available in three standard sizes and provides excellent life at 1,000,000 full cycles (5 million dither cycles), which means high reliability in demanding installations.

Specifications

Model	9605	9610	9615
Part Number	9605R1.7KL2.0	9610R3.4KL2.0	9615R5.1KL2.0
Total Electrical Travel (A) inches(mm)	0.50 (12.7)	1.00 (25.4)	1.50 (38.1)
Total DC Resistance ± 25%	1.7K	3.4K	5.1K
Linearity Over Active Electrical Travel	± 2%		
Best Practical Linearity (Option)	± 1.0%	± 0.5%	± 0.35%
Power Rating at 70ºC, Watts	0.25	0.50	0.75
Mechanical Travel ± .015(± 0.4) (B) inches (mm)	0.56 (14.2)	1.06 (26.9)	1.56 (39.6)
Housing Length ± .015 (± 0.4) (C) inches (mm)	1.06 (26.9)	1.56 (39.6)	2.06 (52.3)
Terminal Spacing (D) inches (mm) (E) inches (mm)	0.30 (7.6) 0.20 (5.1)	0.50 (12.7) 0.50 (12.7)	0.80 (20.3) 0.70 (17.8)
Fully Extended Length ± .015 (± 0.4) (F) inches (mm)	0.810 (20.6)	1.310 (33.3)	1.810 (46.0)
Mechanical Life	1,000,000 Full Cycles; 5,000,000 Dither Cycles		
Stop Strength oz. (Newtons)	360 (100)		
Actuation Force oz. (Newtons)	14.4 (4.0) Maximum, supplied with internal spring to return actuator to extended position		
Humidity	95% @ 38ºC		
Vibration	15g's 50 to 1,000Hz, 2 hrs, each axis		
Shock	Up to 50g's		
Temperature Limits	-40ºC to +135ºC		



BEI SENSORS

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