

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 $.110^{\prime \prime}$ (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 <br> (A) inches( mm ) | 0.50 (12.7) | 1.00 (25.4) | 1.50 (38.1) |
| Total DC Resistance $\pm 25 \%$ | 1.7K | 3.4K | 5.1K |
| Linearity Over Active Electrical Travel | $\pm 2 \%$ |  |  |
| Best Practical Linearity (Option) | $\pm 1.0 \%$ | $\pm 0.5 \%$ | $\pm 0.35 \%$ |
| Power Rating at 70ㅇ, Watts | 0.25 | 0.50 | 0.75 |
| Mechanical Travel $\pm .015( \pm 0.4)$ <br> (B) inches (mm) | 0.56 (14.2) | 1.06 (26.9) | 1.56 (39.6) |
| Housing Length $\pm .015( \pm 0.4)$ <br> (C) inches ( mm ) | 1.06 (26.9) | 1.56 (39.6) | 2.06 (52.3) |
| Terminal Spacing <br> (D) inches (mm) <br> (E) inches (mm) | $\begin{aligned} & 0.30(7.6) \\ & 0.20(5.1) \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.50(12.7) \\ & 0.50(12.7) \\ & \hline \end{aligned}$ | $\begin{aligned} & 0.80(20.3) \\ & 0.70(17.8) \\ & \hline \end{aligned}$ |
| Fully Extended Length $\pm .015$ ( $\pm 0.4$ ) <br> ( 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\% @ 38C |  |  |
| Vibration | 15 g 's 50 to 1,000Hz, 2 hrs, each axis |  |  |
| Shock | Up to 50g's |  |  |
| Temperature Limits | $-40^{\circ} \mathrm{C}$ to $+135{ }^{\circ} \mathrm{C}$ |  |  |


7)




