



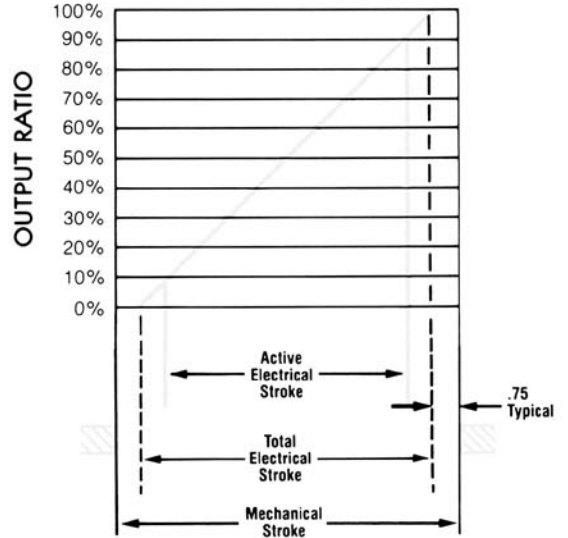
MODEL 9610

SPRING RETURN LINEAR/POSITION SENSOR MODULE

Designed for a variety of miniature-sized, accurate position feedback applications, the Duncan 9600 Series Linear Position Sensor Module is ideally suited for use where reliability in a harsh operating environment is a primary consideration.

Use in industrial, vehicular, appliance, machine tool, and robotic applications is benefited by the unit's features which include high temperature-stable materials, solderable terminal tabs, suitable for use with .110" (2.8mm) PDQ styled crimped wiring lugs, and a durable spring-loaded function (extended in normal position).

The 9600 Series is available in three standard sizes and provides excellent long-life at 1,000,000 full cycles (5 million dither cycles); resistance, voltage and linearity characteristics.



MODEL	9610
Total Electrical Travel (A) inches (mm)	1.00 (25.4)
Total DC Resistance $\pm 25\%$	3.4K
Linearity Over Active Electrical Travel	$\pm 2\%$
Best Practical Linearity	$\pm 0.5\%$
Power Rating At 70°C, Watts	.50
Mechanical Travel $\pm .015 (\pm 0.4)$ (B) inches (mm)	1.06 (26.9)
Housing Length $\pm .015 (\pm 0.4)$ (C) inches (mm)	1.56 (39.6)
Terminal Spacing: (D) inches (mm) (E) inches (mm)	0.50 (12.7) 0.50 (12.7)
Fully Extended Length $\pm .015 (\pm 0.4)$ (F) inches (mm)	1.310 (33.3)
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% @ 38°C
Vibration	15G's, 50 to 1,000Hz, 2 hrs, each plane
Shock	Up to 50G's
Temperature Limits	-40°C to +135°C

