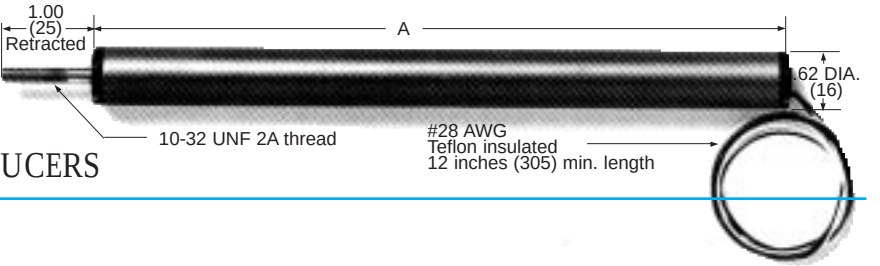
600 Series
Linear Motion Position Transducers



600 Series linear motion position transducers provide extremely accurate measurements in applications that require a rugged instrument operating in a tight area. Their long life, infinite resolution and smooth output deliver high reliability in critical measurements.

Seven models provide a choice of electrical travel from 1" (25mm) to 12" (305mm) and include a floating shaft design to accommodate shaft/interface connecting misalignments. An optional mounting bracket and rod end bearing are available.

Electrical Specifications

Resistance Tolerance:
±20%

Power Rating at 70°C:
0.25 watts
Per inch of electrical travel derated to 0 watts at 125°C

Output Smoothness:
0.1%

Insulation Resistance at 500 VDC:
1000 megohms

Dielectric Strength:
500 VDC

Temperature Range:
-55 to +125°C

Mechanical Specifications

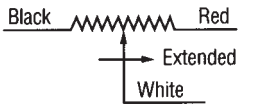
Actuation Force:
2 oz. (.56 Newtons) max.

Repeatability:
Within .0005 in. (.013)

Life:
10 x 10^6 Cycles

Shaft Alignment:
Floating shaft design allows for shaft/interface misalignment up to 0.010" (.25). Shaft rotates freely

Schematic



Model	601	602	603	604	606	610	612
Total Electrical Travel in. (mm)	1.00 (25)	2.00 (51)	3.00 (76)	4.00 (102)	6.00 (152)	10.00 (254)	12.00 (305)
Active Electrical Travel in. (mm)	.90 (23)	1.90 (48)	2.90 (74)	3.90 (99)	5.90 (150)	9.90 (251)	11.90 (302)
Resistance KΩ ±20%	1.00	2.00	3.00	4.00	6.00	10.00	12.00
Linearity Over Active Electrical Travel ±%	0.70	0.35	0.25	0.15	0.12	0.09	0.08
Mechanical Travel in. (mm)	1.10 (28)	2.10 (53)	3.10 (79)	4.10 (104)	6.10 (155)	10.10 (257)	12.10 (307)
Case Dimensions "A" in. (mm)	2.50 (57)	3.50 (89)	4.50 (114)	5.50 (140)	7.50 (190)	11.50 (292)	13.50 (343)