600 SERIES
LINEAR POSITION SENSOR

Introduction

The 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 design to accommodate shaft/interface connecting misalignments. An optional mounting bracket and rod end bearing are available.

SPECIFICATIONS

Mechanical

Mechanical Travel	Elect travel + 0.1 in. min
Actuation Force	2 oz. max
Repeatability	Within 0.0005 inch
Life	10 x 10^6 cycles

Electrical

Electrical Travel	See Table 1
Resistance Range	See Table 1
Resistance Tolerance	±20%
Independent Linearity	See Table 1
Power Rating @ 70°C	0.25 Watt per inch Derated to 0 Watts @ 125°C
Output Smoothness	0.1%
Insulation Resistance @500 VDC	1000 Megohms
Resolution	Infinite
Dielectric Strength	500 VRMS
Temperature Range	-55° to +125°C

DIMENSIONS

Dimensions are in inches(mm). Tolerance: .03 (.8)

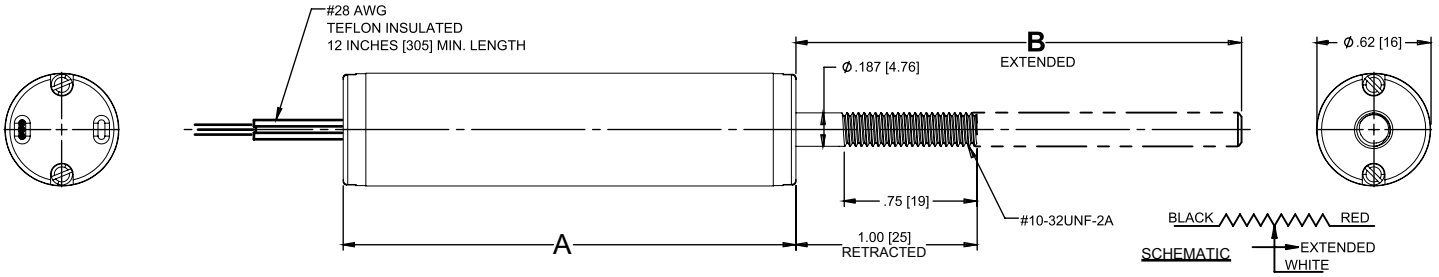

Table 1

Model	Resistance Ω	Linearity ±%	Electrical Travel	Dimensions	
				A	B
601	1.0	0.70	1.00 (25)	2.50 (57)	2.10 (53)
602	2.0	0.35	2.00 (51)	3.50 (89)	3.10 (79)
603	3.0	0.25	3.00 (76)	4.50 (114)	4.10 (104)
604	4.0	0.15	4.00 (102)	5.50 (140)	5.10 (129)
606	6.0	0.12	6.00 (152)	7.50 (190)	7.10 (180)
610	10.0	0.09	10.00 (254)	11.50 (292)	11.10 (282)
612	12.0	0.08	12.00 (305)	13.50 (343)	13.10 (333)

General Notes

- Available in dual configuration.
- Most specifications may be altered to meet specific requirements.
- Other travels available

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