

## 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

<b>Mechanical Travel</b>	Elect travel + 0.1 in. min
<b>Actuation Force</b>	2 oz. max
<b>Repeatability</b>	Within 0.0005 inch
<b>Life</b>	10 x 10 <sup>6</sup> cycles

#### Electrical

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



# DIMENSIONS

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

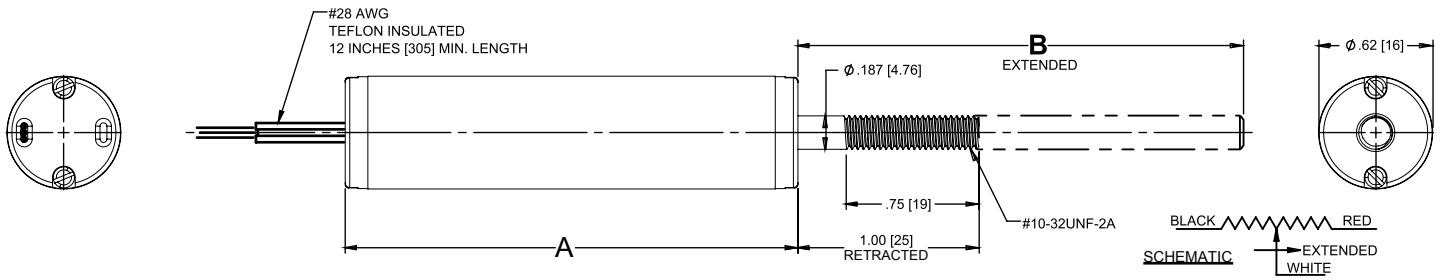


Table 1

Model	Resistance $\Omega$	Linearity $\pm\%$	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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