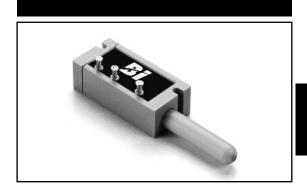
MODEL 404 SERIES

Spring Return Linear Actuation Conductive Plastic Position Sensor



APPLICATIONS

- · Robotics
- · Automotive/Heavy Equipment
- Industrial Automation

FEATURES & BENEFITS

- Short travel (.5 inches), linear motion with spring return
- Accurate position feedback
- · Low cost
- Compact design for small spaces
- · Conductive plastic technology
- Long life 5 million actuations

ELECTRICAL

Resistance Range, Ohms	1K to 150K
Standard Resistance Tolerance	±10%
Minimum Practical Resistance Tolerance	±5%
Independent Linearity	±1.0%
Minimum Practical Independent Linearity	±.5%
Input Voltage, Maximum	400Vdc, but not to exceed power rating
Power Rating, Watts	0.25 at 70°C derating to 0 at 125°C
Dielectric Strength	1,000V rms
Insulation Resistance, Minimum	1,000 Megohms
Output Smoothness, Maximum	0.1% at 10" to 18"/ Minute
Actual Electrical Travel, Nominal	0.50"±.015" (12.7mm±0.38mm)
Electrical Continuity Travel, Minimum	Within Mechanical Travel
Resolution	Essentially infinite
Temperature Coefficient*	-800 ppm/°C

Specifications subject to change without notice.

^{*}Special tempco available to ±100ppm/°C.

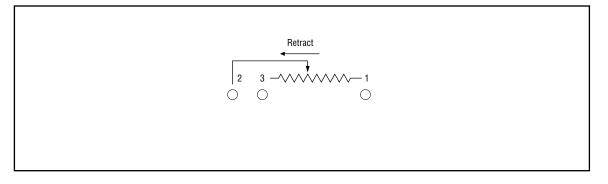
ENVIRONMENTAL (MIL-R-39023)

Operating Temperature Range	Static: -55°C to +125°C
	Dynamic: -40°C to +125°C
Load Life	1 mil. full cycles (10% ΔR)
	5 mil. dither cycles

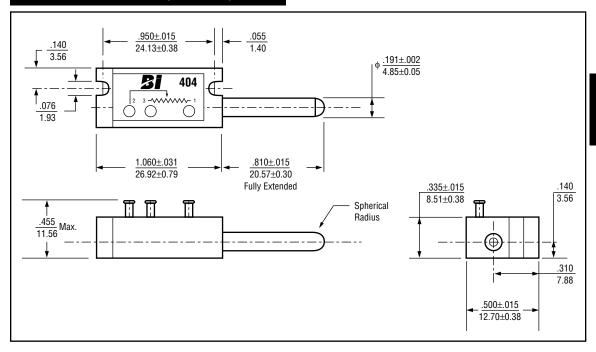
MECHANICAL

Total Mechanical Travel	.56"±.015" (14.2mm±0.38mm)
Actuating Force, Maximum	14 oz., Internal spring to return slider to extended position
Backlash, Maximum	.003"
Static Stop Strength	20 lb.
Body Style	Rectangular
Termination Style	Turret Terminals

SCHEMATIC



OUTLINE DIMENSIONS (Inch/mm)



METRIC CONVERSIONS

1 in.	25.4mm
1 oz.	28.4 gm

1 ozin.	0,007 N-m
1 lbin.	0,113 N-m

Linearity Tape

ORDERING INFORMATION

