

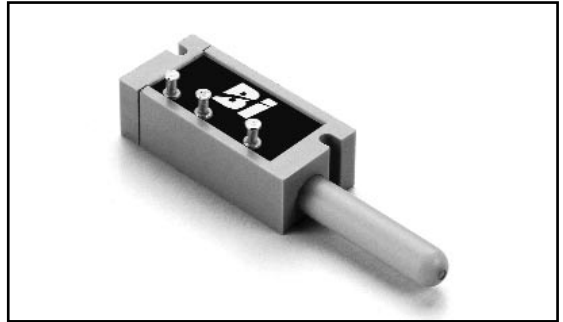
# MODEL 404 SERIES

Spring Return

Linear Actuation

Conductive Plastic

Position Sensor



2

## 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.

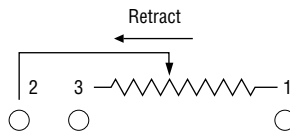
Body Style

Rectangular

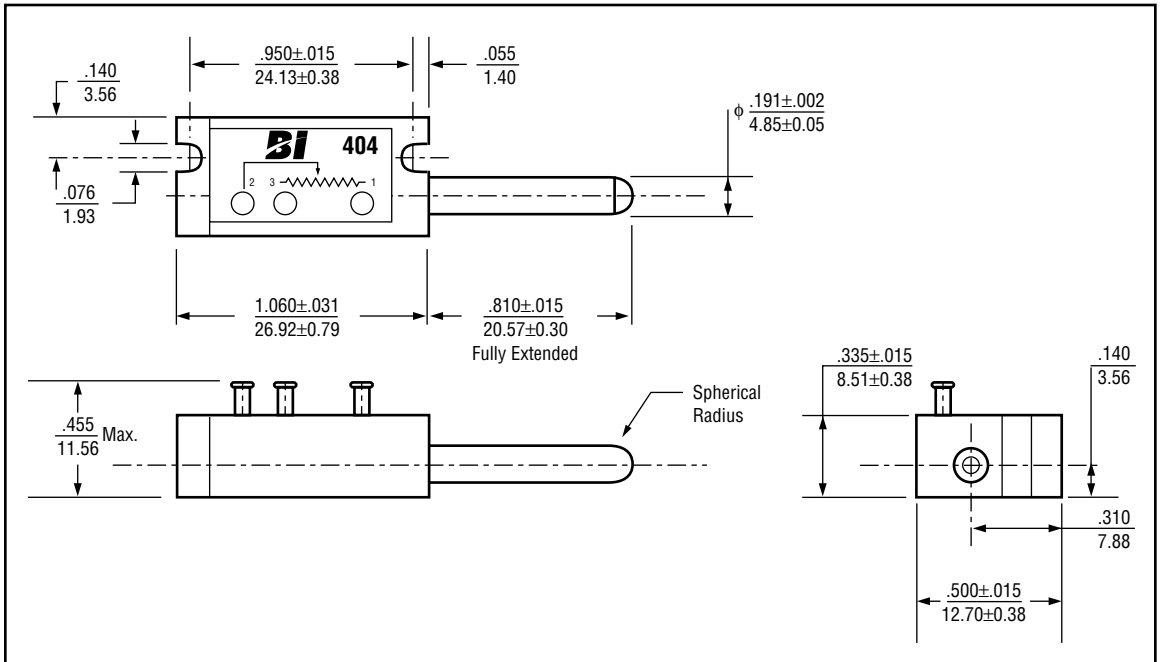
Termination Style

Turret Terminals

## SCHEMATIC



## OUTLINE DIMENSIONS (Inch/mm)



2

## METRIC CONVERSIONS

1 in.	25.4mm	1 oz.-in.	0,007 N-m
1 oz.	28.4 gm	1 lb.-in.	0,113 N-m

## SPECIAL FEATURES

Linearity Tape

LT

## ORDERING INFORMATION

