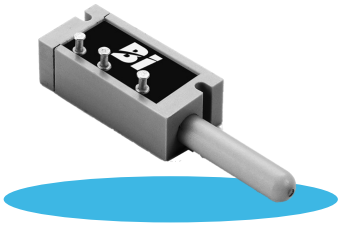
Model 404 Series

Position Sensor



Features:

- Short travel (0.5 inches), linear motion with spring return
- Accurate position feedback
- Compact design for small spaces
- Conductive plastic technology
- Long life (5 million actuations)

Applications:

- Robotics
- Automotive
- Heavy equipment
- Industrial automation
- Wing flap position
- Pedal position
- Satellite dish
- Electro surgical equipment

Electrical

Resistance range	1K to 150K Ohms
Standard resistance tolerance	±10%
Minimum practical resistance tolerance	±5%
Independent linearity	±1%
Minimum practical independent linearity	±0.5%
Input voltage	400 VDC maximum, not to exceed power rating
Dielectric strength	1,000 V rms
Insulation resistance	1,000 Megohms minimum
Output smoothness	0.1% maximum at 10” to 18” per minute
Actual electrical travel	0.50” ±0.015” (12.7 mm ±0.38 mm)
Electrical continuity travel	Within mechanical travel
End voltage	Maximum 0.5% of input voltage
Resolution	Essentially infinite
Temperature coefficient of resistance	-400 ppm/°C typical
Temperature coefficient of output voltage	±10 ppm/°C typical

Mechanical

Torque mechanical travel	0.56” ±0.015” (14.2 mm ±0.38 mm)
Actuating force	14 oz. maximum, internal spring to return slider to extended position
Backlash	0.003” maximum
Static stop strength	20 lb. minimum
Body style	Rectangular
Termination style	Turret terminations

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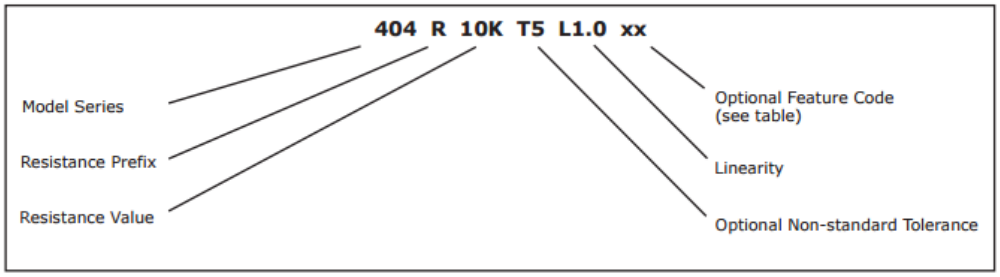
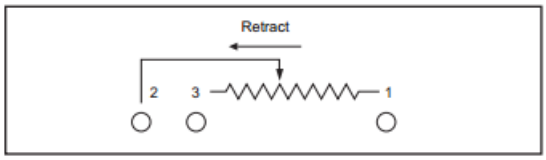
Environmental (MIL-PRF-39023)

Operating temperature range	-40°C to +125°C dynamic, -55°C to +125°C static
Load life	1 million shaft cycles at 0.25 Watts & 70°C, maximum 10% ΔR

Ordering Information



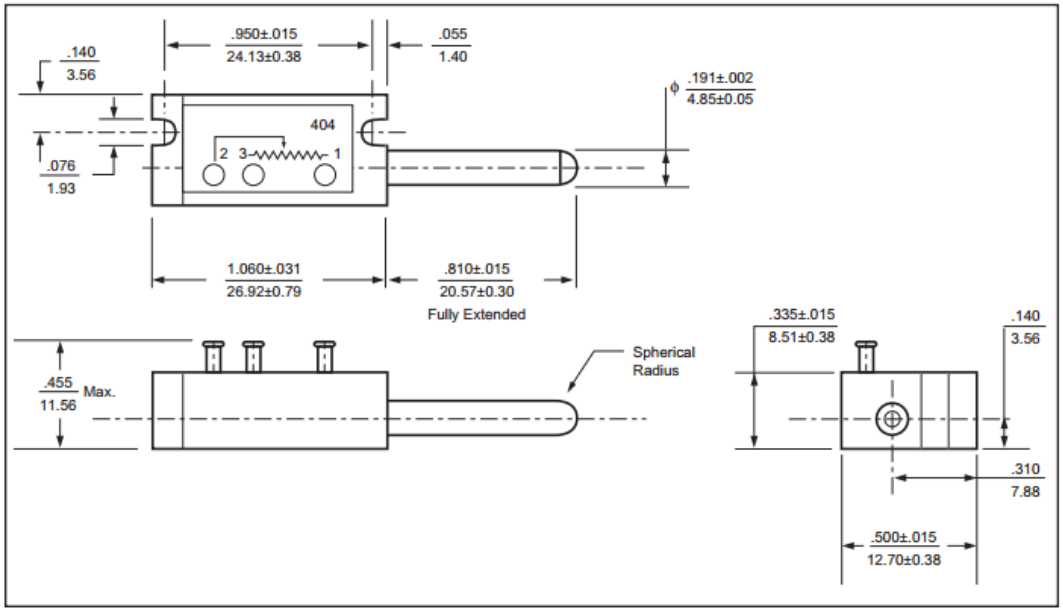
Circuit Diagram



Feature Codes

Linearity Tape	LT

Outline Drawing



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