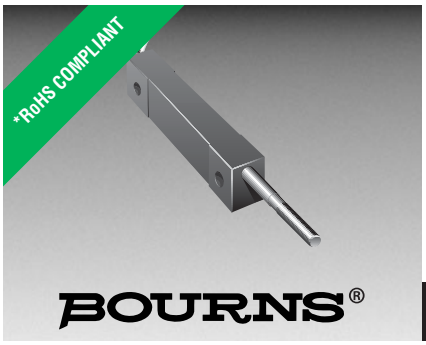


Features

- Compact
- Lightweight
- Long life
- Infinite resolution
- Free shaft rotation
- AC or DC
- Shaft options available
- Flexible wire leads
- Economical
- RoHS compliant*

3048 Linear Motion Potentiometer

Specifications†

Standard Electrical Travel
.....0.2, 0.3, 0.4, 0.5 in.
(5.08, 7.62, 10.16, 12.70 mm)
Standard Resistances
.....1K ohms to 50K ohms (± 20 %)
Independent Linearity .....± 5 %
Resolution .....Infinite
Power Rating @ 70 °C (158 °F)
Range 2, 3.....0.12 watt
Range 4, 5.....0.25 watt
Operating Temperature Range
.....-55 °C to +125 °C
Temperature Coefficient ....1000 PPM/°C
Insulation Resistance.....50 megohms
@ 500 VDC
Backlash .....Negligible
Shaft Actuating Force .....4 oz. max.
@ 70 °F
Life.....500,000 cycles
Shock.....50 G for 7 msec
Vibration .....20 G, 10-2 kHz
Marking .....Manufacturer's trademark, resistance code, wiring diagram, date code, manufacturer's model number and style

Specifications are typical. Contact factory for special requirements.
† Specifications applicable from 5 % to 95 % of electrical travel.

How to Order

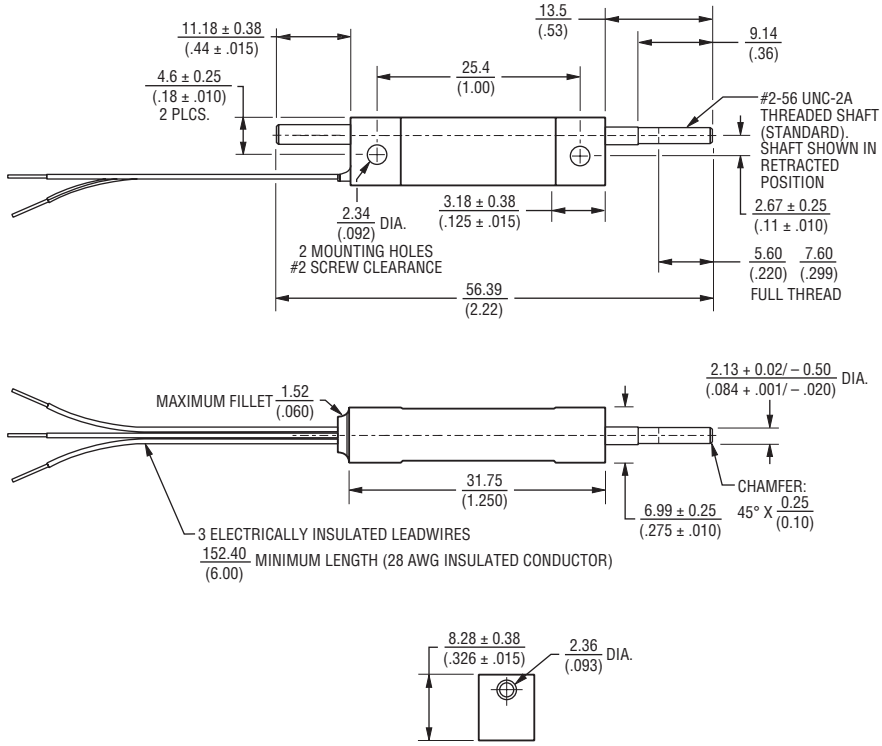
3048 L - 2 - 502

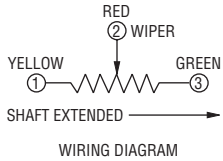
Model
Style
Range (Travel)
2 = 0.2 " (5.08 mm)
3 = 0.3 " (7.62 mm)
4 = 0.4 " (10.16 mm)
5 = 0.5 " (12.70 mm)
Resistance Value

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,500	252
5,000	502
10,000	103
20,000	203
50,000	503

Product Dimensions





WIRING DIAGRAM

TOLERANCES: ± .010 (0.25) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM / (INCHES)

REV. 09/04

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify device performance in their specific applications.