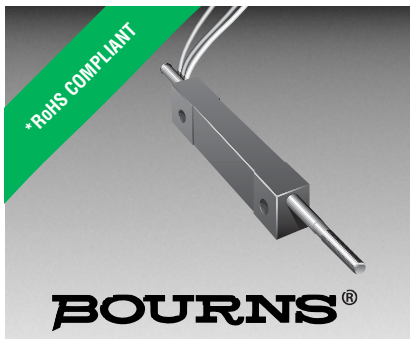




## Features

- 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 ( $\pm 20\%$ )

Independent Linearity .....  $\pm 5\%$

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)

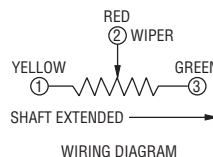
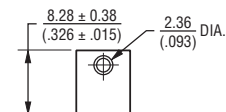
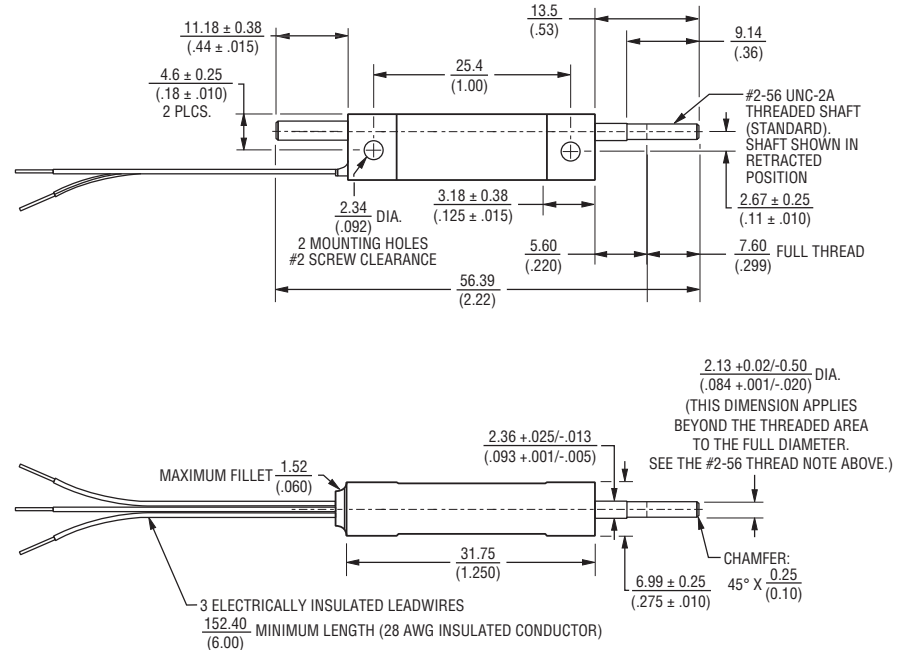
4 = 0.4" (10.16 mm)

5 = 0.5" (12.70 mm)

Resistance Value

Stainless steel shaft is available upon request.

### Product Dimensions



TOLERANCES:  $\pm .010$  (0.25) EXCEPT WHERE NOTED

DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

### 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             |

REV. 01/13

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.