

Features

- Compact
- Sealed
- Long life
- Infinite resolution
- Free shaft rotation
- AC or DC
- Shaft options available

Specifications[†]

Standard Resistances

special requirements.

of electrical travel.

How to Order

1 = 0.15 ″ (3.81 mm) 2 = 0.25 ″ (6.35 mm) 3 = 0.35 ″ (8.89 mm)

Resistance

(Ohms)

1,000

2,500

5,000

10,000

20,000

50,000

Standard Resistance Table

Resistance Value

Model

Style Range (Travel)

Standard Electrical Travel

Power Rating @ 70 °C (158 °F)

Operating Temperature Range

Product Dimensions

10.46 ± 0.050.15, 0.25, 0.35 in. (.412 ± .002) (3.81, 6.35, 8.89 mm) 6.604 ± 1.016 10.26 ± 0.05 (.404 ± .002) $(.260 \pm .040)$ 1K to 50K ohms (±20 %) Independent Linearity..... ±5 % Resolution Infinite0.125 watt 40.41 ± 0.05 (1.591 ± .002) Temperature Coefficient ... 1000 PPM/°C $\frac{1.59 \pm .013}{(.0625 \pm .0005)}$ DIA. Insulation Resistance50 megohms @ 500 VDC Backlash.....Negligible Shaft Actuating Force .. 2N max. @ 21 °C 19.68 ± 0.13 Life......500,000 cycles CHAMFER: $(.775 \pm .005)$ 45° X 0.25 (0.10) Shock50 G for 7ms 3 ELECTRICALLY INSULATED LEADWIRES 152.40 (6.00) MINIMUM LENGTH (28 AWG INSULATED CONDUCTOR) Marking......Manufacturer's trademark, resistance code, wiring diagram, date code, manufacturer's model 6.58 ± 0.07 $\frac{4.5 \pm 0.38}{(.177 \pm 0.15)}$ $(.259 \pm .003)$ number and style \odot TOLERANCES: $\pm \frac{.010}{(0.25)}$ EXCEPT WHERE NOTED Specifications are typical. Contact factory for † Specifications applicable from 5 % to 95 % 5.69 ± 0.07 (.224 ± .003) RED ⑦ WIPER MM DIMENSIONS: GREEN (INCHES) YELLOW -3 (1)-3046 L - 2 - 502 SHAFT EXTENDED

3046 Linear Motion Potentiometer

WIRING DIAGRAM

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 . Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 · Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 · Email: americus@bourns.com www.bourns.com

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Resistance

Code

102

252

502

103

203

503

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

- Flexible wire leads
- Economical
- RoHS compliant*

#0-80 UNF-2A THREADED SHAFT

(STANDARD). SHAFT SHOWN IN RETRACTED

POSITION

ŧ.

A

REV. 09/19

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