

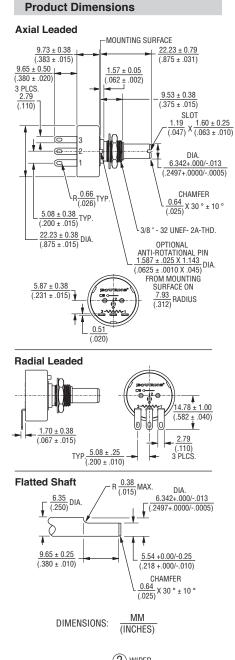
#### **Features**

- Lower profile than Model 6639
- Essentially infinite resolution
- Excellent rotational life
- High quality, rugged construction
- Recommended for HMI applications
- Cost and space saving

- Optional anti-rotation lug
- Optional mechanical stop

### 6630 - Precision Potentiometer

# Electrical Characteristics<sup>1</sup> Total Resistance Tolerance .....±15 % Power Rating (Voltage Limited By Power Dissipation or 300 VAC, Whichever is Less) +125 °C 0 watt Insulation Resistance (500 VDC) 10 megohms minimum Resolution...... Essentially infinite Environmental Characteristics<sup>1</sup> Operating Temperature Range -40 °C to +125 °C Storage Temperature Range -65 °C to +125 °C Temperature Coefficient ±500 ppm/°C maximum Vibration 15 G Wiper Bounce 0.1 millisecond maximum Total Resistance Shift ±5 % Voltage Patie Shift 10.5 % Voltage Ratio Shift.....±0.5 % Vollage Ratio Shift ±0.5 % Shock 50 G Wiper Bounce 0.1 millisecond maximum Total Resistance Shift ±5 % Voltage Ratio Shift ±0.5 % Load Life 1,000 hours, 1 watt Total Resistance Shift ±10 % Rotational Life (No Load) 5,000,000 shaft revolutions Total Resistance Shift ±10 % maximum IP Rating.....IP 40 ESD Classification (HBM)......N/A Mechanical Characteristics<sup>1</sup> Mechanical Angle Continuous, Stops (340 ° +8 °, -0 °) available Torque (Starting & Running)² 0.40 N-cm (0.5 oz.-in.) max. Mounting 170-200 N-cm (15-18 lb.-in.) maximum Shaft Runout 0.13 mm (0.005 in.) T.I.R. Shaft End Play 0.13 mm (0.005 in.) T.I.R. Shaft Runout 0.13 mm (0.005 in.) T.I.R. Marking......Manufacturer's name and part number, resistance value and is shipped with potentiometer.



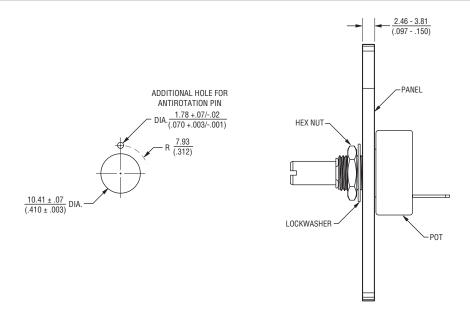
CLOCKWISE -

<sup>1</sup> At room ambient: +25 °C nominal and 50 % relative humidity, except as noted.

<sup>&</sup>lt;sup>2</sup> 2.82 N-cm (4.0 oz.-in.) max. at -40 °C.

<sup>\*</sup>RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

#### **Panel Thickness Dimensions**

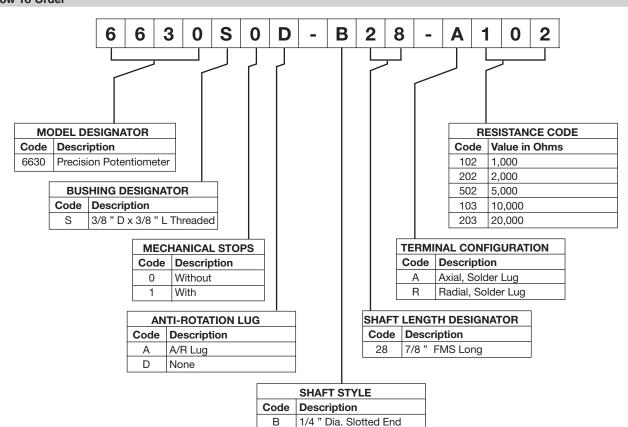


Anti-rotation pin hole is shown at six o'clock position for reference only. The actual location is determined by the customer's application. Refer to the front view of the potentiometer to see the location of the optional A/R pin.

Panel thickness and hole diameters are recommended for best fit. However, customers may adjust the dimensions to suit their specific application.

DIMENSIONS:  $\frac{MM}{(INCHES)}$  TOLERANCES:  $\pm \frac{0.127}{(.005)}$ 

#### **How To Order**



С

1/4 " Dia. Flatted End

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### **Bourns:**

6630S0D-B28-A102 6630S0D-B28-A103 6630S0D-B28-A202 6630S0D-B28-A203 6630S0D-B28-A502 6630S1D-B28-A102 6630S1D-B28-A103 6630S1D-B28-A502 6630S0D-B28-R102 6630S0D-B28-R103 6630S0D-B28-R203 6630S0D-B28-R502 6630S1A-C28-R203 6630S1D-C28-R502 6630S0A-B28-R502 6630S1A-C28-R502 6630S1D-C28-A102 6630S1A-B28-R103 6630S0D-C28-A102 6630S1A-C28-R103 6630S1D-C28-A102 6630S1D-C28-A103 6630S1D-C28-A502 6630S1D-C28-A502 6630S0D-C28-A502 6630S0D-C28-A502 6630S0D-C28-A502 6630S0D-C28-A502 6630S0D-C28-A103 6630S1A-B28-R103 6630S1