

## Features

- Large package size
- For use with precision potentiometers up to 20 turns
- Excellent readability
- Precision feel - no backlash
- Cast housing
- RoHS compliant\*

## Applications

- Power supplies
- Sensors
- Medical
- Automation
- Test equipment

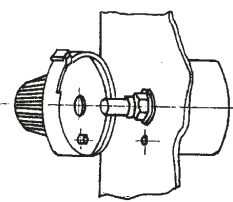
# H-46 Turns-Counting Dial

### Mechanical and Physical Characteristics

Number of Turns .....	0 to 20
Dial Divisions.....	100 per turn
Readability – Over 10 Turns.....	Within 1/100 of a turn
Torque With Brake Engaged .....	21.18 N-cm (30.0 oz.-in.) maximum
Markings .....	Black on chrome background
Locking Brake .....	Yes
Weight .....	73 grams (2.5 oz.)
Set Screw.....	UNC N4-44, one included
Set Screw Tightening Torque.....	16.94 N-cm (1.5 lbs.-in.) minimum
Hex Key Size .....	1.5 mm hex

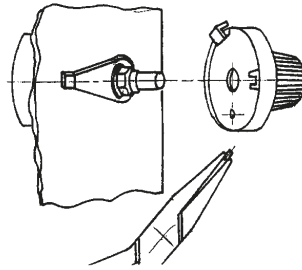
### Shaft and Bushing Requirements

Shaft Diameter Requirements .....	Refer to chart below
Shaft Extension Beyond Panel.....	17.5 mm (0.689 in.) minimum 23.5 mm (0.925 in.) maximum
Bushing Extension Beyond Panel .....	4.5 mm (0.177 in.) maximum



#### H-46 MOUNTING INSTRUCTIONS Using the existing Antirotation Lug

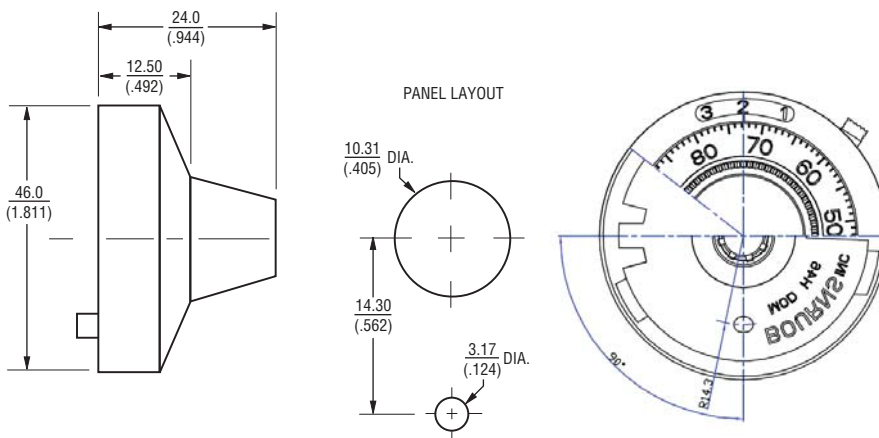
1. Drill 3.2 mm (0.125) diameter antirotation pin hole on vertical centerline 14.3 mm (0.562) below center of potentiometer mounting hole.
2. Mount potentiometer shaft counterclockwise to obtain minimum resistance or voltage ratio. This is not necessarily identical with the mechanical stop.
3. Loosen set screws in knob of dial. Set dial to "0.0" reading.
4. While holding outer ring of dial, position unit lightly against panel. Tighten knob set screws to potentiometer shaft.



#### Using the Antirotation Device

1. Remove antirotation lug from dial by using pliers.
2. Mount potentiometer in panel with antirotation device nut (supplied with dial) and lockwasher (supplied with potentiometer).
3. Turn potentiometer shaft counterclockwise to obtain minimum resistance or voltage ratio. This is not necessarily identical with the mechanical stop.
4. Loosen set screws in knob of dial. Set dial to "0.0" reading.
5. While holding outer ring of dial, position unit lightly against panel. Tighten knob set screws to potentiometer shaft.

### Dimensional Drawings



### How To Order

Part Number	Accepts Shaft Diameter	Finish
H-46-6A	6.35 mm (.250)	Satin Chrome
H-46-6M	6 mm (.236)	Satin Chrome

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



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

REV. 01/14

\*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. 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](http://www.bourns.com/docs/legal/disclaimer.pdf).

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