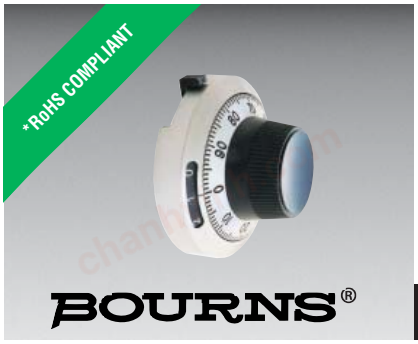
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## Features

- 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

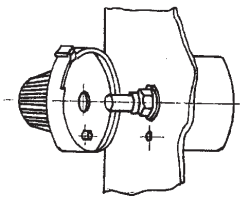
# H-46 Turns-Counting Dial

### 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 | 0.05 in. hex |

### Shaft and Bushing Requirements

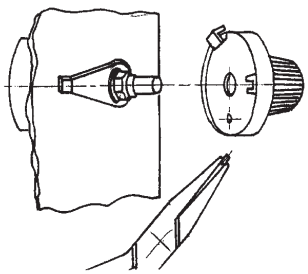
| | |
|---|---|
| Shaft Diameter Requirements | Refer to chart below |
| Shaft Extension Beyond Panel | 17.5 mm (0.689 in.) minimum<br>23.5 mm (0.925 in.) maximum |
| Bushing Extension Beyond Panel | 4.5 mm (0.177 in.) maximum |



H-46 MOUNTING INSTRUCTIONS

**Using the existing Antirotation Lug**

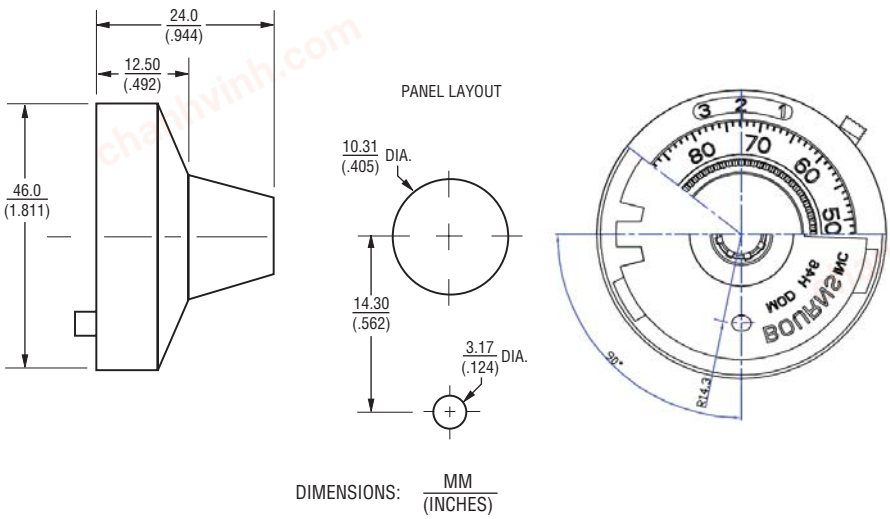
1. Drill 3.2 mm (0.125) diameter antirotation pin hole on vertical centerline 14.3 mm (0.562) below center of potentiometer mounting hole.
2. Mount potentiometer shaft counterclockwise to obtain minimum resistance or voltage ratio. This is not necessarily identical with the mechanical stop.
3. Loosen 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




DIMENSIONS: MM / (INCHES)

### 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 |

REV. 03/09

*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