

Features

- No backlash mounted directly to potentiometer shaft
- For use with precision potentiometers or other rotating devices up to 30 turns
- Compact size requires only 25.4 mm diameter panel space
- Available with or without brake

H-490 Turns-Counting Dial

Mechanical and Physical Characteristics	
Number of Turns Dial Divisions Readability - Over 10 Turns Torque With Brake Engaged Markings Locking Brake. Weight Set Screws. Set Screw Tightening Torque Hex Key Size	0 to 30
Dial Divisions	100 per turn
Readability - Over 10 Turns	1 part in 1000
Torque With Brake Engaged	350 g-cm (5 oz-in.) minimum
Markings	White on black background
Locking Brake	Refer to chart below
Weight	Approximately 7 grams (1/4 oz.)
Set Screws	UNC-3A 4-40, 2 screws 120 ° apart
Set Screw Tightening Torque	22.59 N-cm (2 lbsin.) minimum
Hex Key Size	0.05 in. hex
Shaft and Bushing Requirements	
Shaft Diameter Requirements Shaft Extension Beyond Panel	Refer to chart below
Shaft Extension Beyond Panel	15.75 mm (0.62 in.) minimum
	21.21 mm (0.83 in.) maximum
Bushing Extension Beyond Panel	

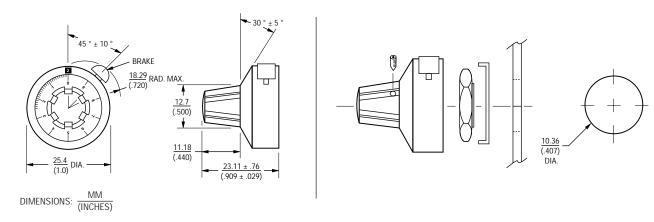
H-490 MOUNTING INSTRUCTIONS

- Discard standard mounting nut and lockwasher supplied with the potentiometer; they will not be used.
 Insert potentiometer in panel.
 Using parts supplied with dial, position anti-rotation washer against panel. Tangs of washer should stick out from panel.
 Install mounting nut supplied with dial. Be sure:

 Shoulder on nut engages hold of anti rotation washer.
 Tangs of anti-rotation washer are aligned vertically.

 - Tangs of anti-rotation washer are aligned vertically. This positions the turns-counting window properly.
- 5. Turn potentiometer shaft counterclockwise to minimum resistance or voltage ratio. This is not necessarily at the end of travel.
- Loosen set screw in knob of dial assembly. Set dial to "0.00" reading. Slip dial assembly over end of potentiometer shaft. Holding outer ring of dial assembly, engage locating tangs on
- anti-rotation washer in notches on dial assembly.
- While holding outer ring, position unit lightly against panel. Uniformly tighten knob set screws to potentiometer shaft with furnished hex wrench.

Dimensional Drawings



How to Order

Part Number	Accepts Shaft Diameter	Fits Bushing Size	Brake	Body Finish
H-493-2 H-494-2 H-491-3 H-492-3 H-493-3 H-494-3 H-492-2	3.18 mm (.125 in.) 3.18 mm (.125 in.) 6.35 mm (.250 in.) 6.35 mm (.250 in.) 6.35 mm (.250 in.) 6.35 mm (.250 in.) 3.18 mm (.125 in.)	6.35 mm-32UNEF-2A 6.35 mm-32UNEF-2A 9.53 mm-32UNEF-2A 9.53 mm-32UNEF-2A 9.53 mm-32UNEF-2A 6.35 mm-32UNEF-2A	No Yes No Yes No Yes Yes	Black Black Satin Chrome Satin Chrome Black Black Satin Chrome