

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

Model H-490 is currently available, although not recommended for new designs. Models H-23 and H-506 are preferred.

H-490 Turns-Counting Dial

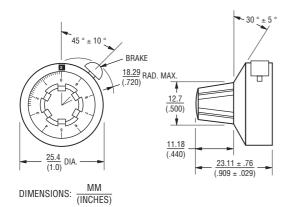
Mechanical and Physical Characteristics	
Number of Turns	0 to 30
Dial Divisions	
Readability - Over 10 Turns	1 part in 1000
Readability - Over 10 Turns	350 g-cm (5 oz-in.) minimum
Markings	White on black background
Locking Brake	Refer to chart below
Weight	Approximately 7 grams (1/4 oz.)
Set Screws	
Set Screw Tightening Torque	22.59 N-cm (2 lbsin.) minimum
Hex Key Size	0.05 in. hex
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Shaft and Bushing Requirements	J. 76

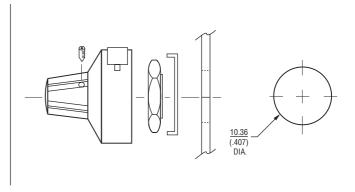
Shaft Diameter Requirements Shaft Extension Beyond Panel15.75 mm (0.62 in.) minimum 21.21 mm (0.83 in.) maximum Bushing Extension Beyond Panel9.02 mm (0.35 in.) maximum

H-490 MOUNTING INSTRUCTIONS

- 1. 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:
- a. Shoulder on nut engages hold of anti-rotation washer.
 b. Tangs of anti-rotation washer are aligned vertically.
 This positions the turns-counting window properly.
- 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	3.18 mm (.125 in.)	6.35 mm-32UNEF-2A	No	Black
H-494-2	3.18 mm (.125 in.)	6.35 mm-32UNEF-2A	Yes	Black
H-491-3	6.35 mm (.250 in.)	9.53 mm-32UNEF-2A	No	Satin Chrome
H-492-3	6.35 mm (.250 in.)	9.53 mm-32UNEF-2A	Yes	Satin Chrome
H-493-3	6.35 mm (.250 in.)	9.53 mm-32UNEF-2A	No	Black
H-494-3	6.35 mm (.250 in.)	9.53 mm-32UNEF-2A	Yes	Black
H-492-2	3.18 mm (.125 in.)	6.35 mm-32UNEF-2A	Yes	Satin Chrome