



*High Precision*

**b Digital Read Out**

**b  $\pm 0.25\%$  Linearity**

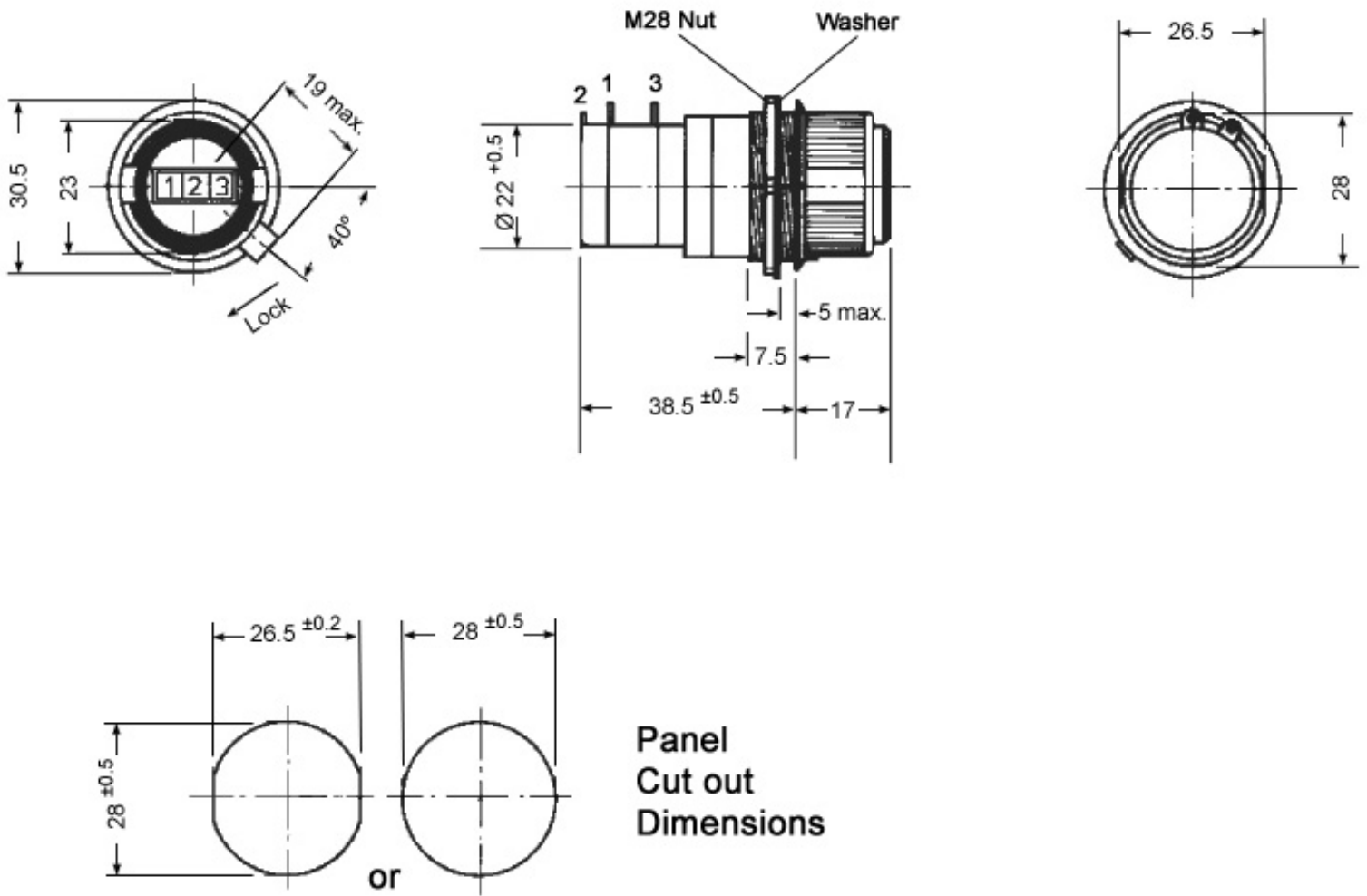
**b 1 Million Turns Life**

**b 10 to 100K Ohm Models**

**Pre-assembled high precision digital turns counting dial / potentiometer allows for easy installation. Available in 3, 5 and 10 turn models. Locking mechanism is standard.**

Electrical Specifications	MCD 1710	MCD 1705	MCD 1703
Resistance Values ( <b>S</b> )	10 to 100K	100 to 50K	100 to 50K
Resistance Tolerance	$\pm 5\%$ (2% optional)		
Linearity Tolerance	$\pm 0.25\%$ ( $\pm 0.1\%$ optional)		$\pm 0.25\%$
Electrical Angle $+10^\circ$ , $-0^\circ$	$3600^\circ$	$1800^\circ$	$1080^\circ$
End Resistance	0.2% of total resistance value or 1 <b>S</b> , whichever is less		
Insulation Resistance	1000 <b>MS</b> at 500 VDC		
Dielectric Strength	1000 VDC, 1 minute		
Noise	<100 <b>S</b> E.N.R.		
Power	2W	1.5W	1W
Mechanical Specifications			
Number of Turns	10	5	3
Mechanical Angle $+10^\circ$ , $-0^\circ$	$3600^\circ$	$1800^\circ$	$1080^\circ$
Starting (max.) Torque (Ncm)	1		
Stopper Strength (Ncm)	20		
Vibration	15g, 10Hz to 2,000Hz		
Shock	50g, 11ms		
Typical Life (# of turns)	1 million		
Potentiometer Bearing	sleeve		
Weight	70 grams		
Environmental Specifications			
Operating Temperature	$-30^\circ\text{C}$ to $+85^\circ\text{C}$		
IP Protection Grade	IP40		
Standards	MIL-R-12934		
Materials			
Housing	GF-Polyamid (dial) / Glass reinforced nylon (potentiometer)		
Dial Colors	Black		
Terminals	Gold plated copper beryllium (DIN 46247)		

Dimensions (mm)



*P3 America*

3089C Clairemont Dr. #363 - San Diego, Ca. 92117

Phone: (858) 277-1420 Fax: (858) 225-0439

[www.p3america.com](http://www.p3america.com)

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