

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE _____	100 TO 100,000 OHMS
RESISTANCE TOLERANCE _____	± 5%
INDEPENDENT LINEARITY _____	SEE CHART
POWER RATING _____	SEE CHART
ELECTRICAL NOISE _____	100 OHMS MAX.
ELECTRICAL ANGLE _____	SEE CHART
END RESISTANCE _____	1 OHM OR 1% MAX.
RESOLUTION _____	SEE CHART
INSULATION RESISTANCE _____	1000 MEGOHMS MIN. @ 500VDC
DIELECTRIC STRENGTH _____	1000 VAC.

MECHANICAL

MECHANICAL ANGLE _____	SEE CHART
STOP STRENGTH _____	48 OZ. IN.
STARTING TORQUE _____	1.4 OZ. IN. MAX.
ROTATIONAL LIFE _____	1,000,000 REVOLUTIONS
WEIGHT _____	0.8 OZ.
RADIAL PLAY _____	.002 TIR
END PLAY _____	.005
PILOT RUNOUT _____	.0015 T.I.R.
SHAFT RUNOUT _____	.002 T.I.R.
LATERAL RUNOUT _____	.0025 T.I.R.

ENVIRONMENTAL

OPERATING TEMPERATURE _____	-55° TO +105°C
TEMPERATURE COEFFICIENT _____	SEE CHART
VIBRATION _____	10Hz TO 2,000Hz 15G
MOISTURE RESISTANCE _____	40°C 95% RH 120 HOURS
SHOCK _____	50G 11mS

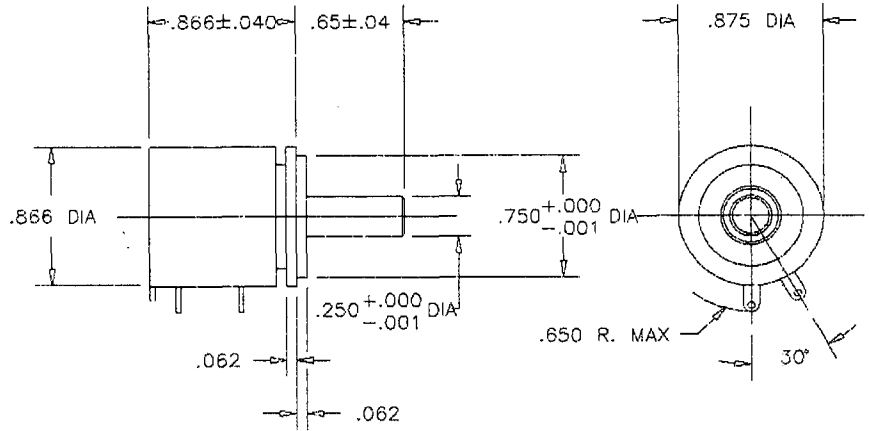
NON-STANDARDS AVAILABLE

- MULTI-GANGED UP TO 6 SECTIONS
- REAR SHAFT EXTENSION
- FRONT SHAFT MODIFICATIONS

MATERIALS

- HOUSING-----HIGH TEMP. THERMO PLASTIC
- TERMINALS-----GOLD PLATED BRASS
- SERVO MOUNT-----ANODIZED ALUMINUM
- SHAFT-----STAINLESS STEEL
- RESISTIVE ELEMENT-----WIREWOUND
- BEARINGS-----BALL

REV.	BY	DATE	PART NO.	MW22S



RESOLUTION CHART

RESISTANCE (OHMS)	50	100	200	500	1K	2K	5K	10K	20K	50K	100K
MW22S-3 TURN	.15	.12	.090	.070	.056	.058	.045	.036	.030	.027	
MW22S-5 TURN	.10	.08	.064	.050	.040	.042	.032	.026	.021	.019	
MW22S-10 TURN	.06	.05	.040	.030	.025	.020	.020	.016	.013	.010	.009

TEMPERATURE COEFFICIENT PPM/°C	80	20
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MODEL	ELECTRICAL ANGLE	MECHANICAL ANGLE	LINEARITY INDEPENDENT	POWER RATING
MW22S-3	108° ± 5°	108° + 10° / - 0°	± 0.5%	1 WATT
MW22S-5	180° ± 5°	180° + 10° / - 0°	± 0.3%	1 WATT
MW22S-10	360° ± 5°	360° + 10° / - 0°	± 0.25%	2 WATT

WIREWOUND RESISTANCE ELEMENT	SCALE	NONE	THIS DOCUMENT CONTAINS PROPRIETARY DATA OF POLARIS INDUSTRIAL ENTERPRISES, INC. NO DISCLOSURE, REPRODUCTION, OR USE OF ANY PART THERE OF MAY BE MADE EXCEPT BY WRITTEN PERMISSION.	Precision Sales & Equipment Inc. 610-359-1002 FAX 610-353-1674
	DATE:	9-2-92		
	BY	PD		
TOLERANCES XX = +/- .010" FRACT. = +/- 1/64" XXX = +/- .005" ANGLES = +/- 1/2"	APPRV'D	BT	TITLE MULTI-TURN POTENTIOMETER	PART NO. MW22S
	CODE IDENT:	19477		

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.