

SPECIFICATIONS

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.					REV.	BY	DATE	P/N	SOP 30B
					C	BT	2/7/97	ADDED SUBMERSIBLE NOTE	

ELECTRICAL

RESISTANCE RANGE ----- 1K TO 100K
RESISTANCE TOLERANCE ----- ± 10%
LINEARITY(INDEPENDENT) ----- ± 1%
ELECTRICAL ANGLE ----- 280°±5°
END RESISTANCE ----- .2% OR 20HMS (WHICHEVER IS GREATER)
CONTACT RES. VARIATION ----- BELOW 2%
RESOLUTION ----- ESSENTIALLY INFINITE
INSULATION RESISTANCE ----- 100 MEGOHMS MIN. AT 1000 VDC.
DIELECTRIC STRENGTH ----- 1000 VAC MIN
POWER RATING ----- 1.0 WATTS
OUTPUT SMOOTHNESS ----- BELOW 0.1% OF INPUT VOLTAGE

MECHANICAL

NO. OF TURNS ----- 1
MECHANICAL ANGLE ----- CONTINUOUS
ROTATIONAL LIFE ----- 10,000,000
STOP STRENGTH ----- N/A
STARTING TORQUE ----- 4.2 OZ. IN.
WEIGHT ----- 1.5 OZ.
SHAFT RADIAL PLAY ----- .005 IN. T.I.R. MAX
SHAFT END PLAY ----- .005 IN. T.I.R. MAX

ENVIRONMENTAL

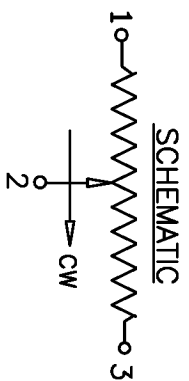
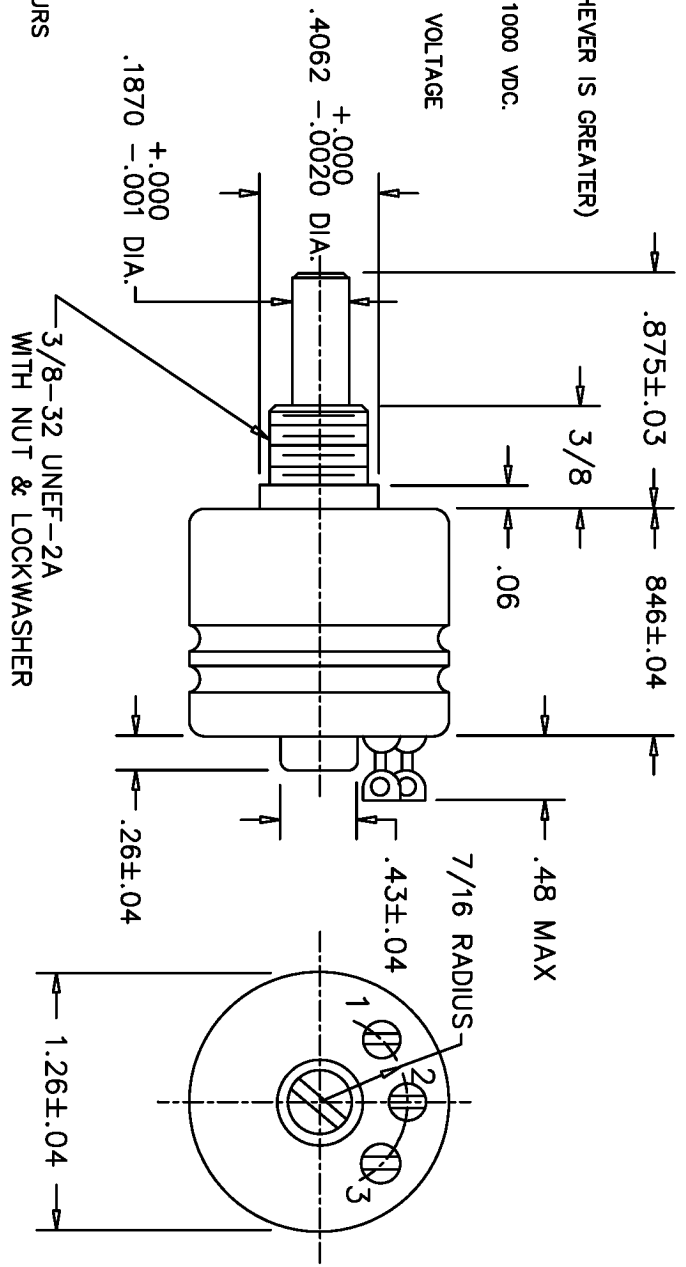
OPERATING TEMPERATURE ----- -30°C TO +60°C
VIBRATION ----- 10HZ TO 2000HZ 10G
SHOCK ----- 30G 11MS
MOISTURE RESISTANCE ----- 40°C 95%RH 2000 HOURS
SUBMERSIBLE ----- TO 15 PSI

MATERIALS

HOUSING ----- METAL
SHAFT ----- STAINLESS STEEL
BUSHING ----- PLATED BRASS
TERMINALS ----- GLASS HEADERS
RESISTANCE ELEMENT ----- CONDUCTIVE PLASTIC

OPTIONAL FEATURES

SHAFT MODIFICATIONS
REAR SHAFT
SPECIAL ANGLES
CENTER TAP
2 GANGS



TOLERANCES XX = +/- .010" FRACT. = +/- 1/64" XXX = +/- .005" ANGLES = +/- 1/2" UNLESS SPECIFIED OTHERWISE. ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.	SCALE		DATE: 7-20-89	
	BY		BT	
CODE IDENT: 19477		EFTI SYSTEMS CARLSBAD CALIFORNIA		TITLE OIL FILLED SINGLE TURN POTENTIOMETER
				PART NO. SOP 30B

Mouser Electronics

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