

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	

SPECIFICATIONS

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

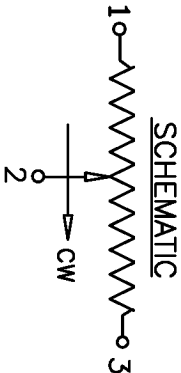
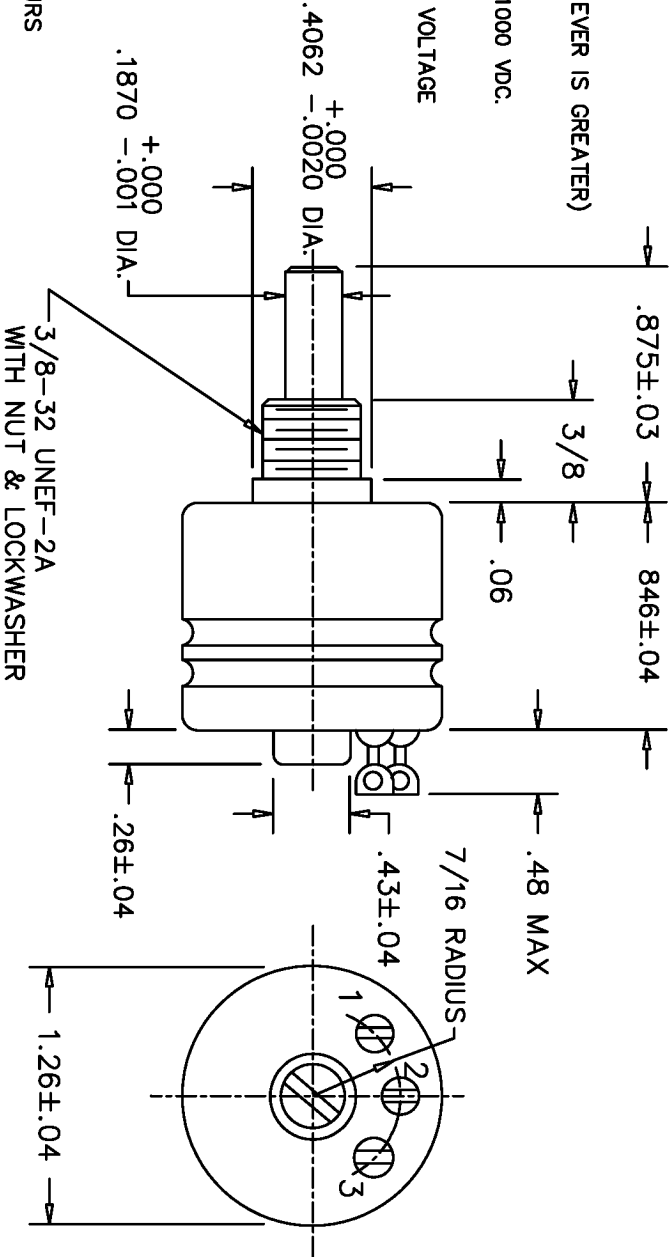
OPERATING TEMPERATURE ----- -30°C TO +60°C
 VIBRATION ----- 10HZ TO 2000HZ 10G
 SHOCK ----- 30G 11MS
 MOISTURE RESISTANCE ----- 40°C 95%RH 2000 HOURS
 SUBMERSIBLE ----- TO 15 PSI

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



USED ON:

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	APPRVD	BT
CODE IDENT:		19477	



ETI
SYSTEMS
CARLSBAD
CALIFORNIA

TITLE
OIL FILLED
SINGLE TURN
POTENTIOMETER

PART NO.
SOP 30B