

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
C	BT	2/7/97	ADDED SUBMERSIBLE NOTE

SOP 30B

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 RESIS. 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

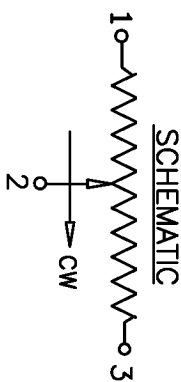
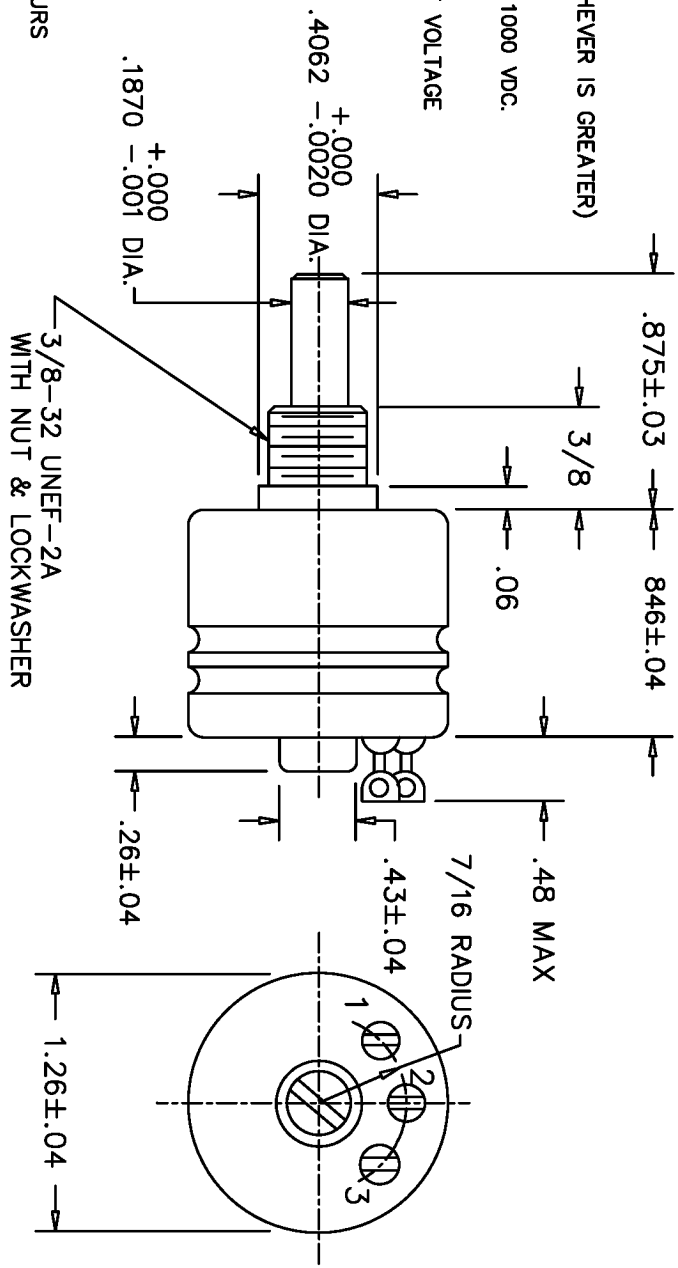
OPERATING TEMPERATURE ----- -30°C TO +60°C
 VIBRATION ----- 10HZ TO 2000HZ 10G
 SHOCK ----- 30G 11MS
 MOISTURE RESISTANCE ----- 40°C 95%RH 2000 HOURS
 SUBMERSIBLE ----- TO 15 PSI

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



FTI SYSTEMS
 CARLSBAD
 CALIFORNIA

TITLE
 OIL FILLED
 SINGLE TURN
 POTENTIOMETER

PART NO.
 SOP 30B