

ELECTRICAL SPECIFICATIONS

RESISTANCE RANGE ----- SEE CHART
 RESISTANCE TOLERANCE ----- ±5%
 LINEARITY (DEPENDENT) ----- SEE TABLE
 END RESISTANCE ----- 1 OHM OR 1%
 ELECTRICAL NOISE (ENR) ----- 100 OHM MAX.
 RESOLUTION ----- SEE CHART
 INSULATION RESISTANCE ----- 100 MΩHMS MIN. AT 500 VDC
 DIELECTRIC STRENGTH ----- 500 VAC
 POWER RATING ----- SEE TABLE

MECHANICAL

STOP STRENGTH ----- 20 LBS.
 WEIGHT ----- SEE TABLE

ENVIRONMENTAL

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

MATERIALS

HOUSING ----- ANODIZED ALUMINUM
 SHAFT ----- STAINLESS STEEL
 BUSHING ----- ANODIZED ALUMINUM
 RESISTANCE ELEMENT ----- WIRE WOUND

OPTIONAL FEATURES

SHAFT MODIFICATIONS
 SPECIAL STROKES

RESOLUTION CHART %

| RESISTANCE DASH NO. | OHMS | 15 | 20 | 50 | 100 | 200 | 500 | 1K | 2K | 5K | 10K | 20K | 40K |
|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -30 | .72 | .59 | .42 | .46 | .36 | .27 | .22 | .17 | .12 | .10 | | | |
| -50 | | | .29 | .24 | .26 | .19 | .16 | .12 | .09 | .07 | .06 | | |
| -100 | | | .19 | .14 | .12 | .12 | .10 | .08 | .06 | .04 | .04 | .03 | |

TEMPERATURE COEFFICIENT

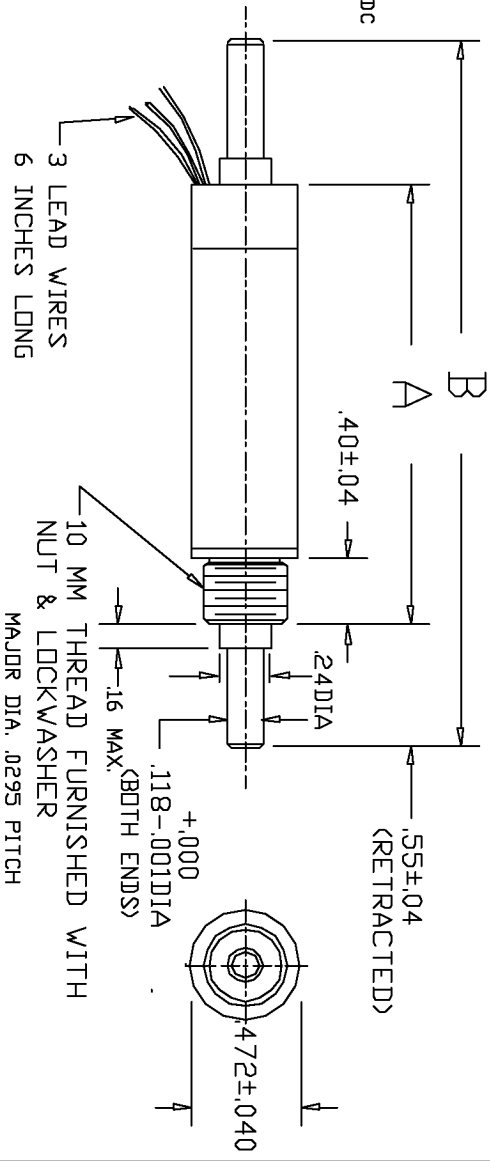
80 PPM/°C

20 PPM/°C

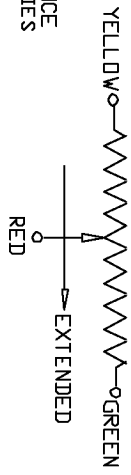
| | |
|-------------|--------|
| SCALE: | NONE |
| DATE: | 4-8-75 |
| BY: | |
| APRVD | BT |
| CODE IDENT: | 19477 |

TOLERANCES
 XX = .010 FRACTIONS = ?/64
 XXX = ±.005 ANGLES = ±1/2"
 ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

| REV. | BY | DATE | PART NO. |
|--------------------|----|---------|----------|
| C | DM | 8-28 96 | L010 |
| ADDED SHAFT STYLES | | | |



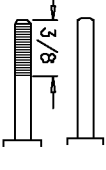
SCHEMATIC



MODEL NO.'S.

L010-(STROKE)-(RES.) (P) PLAIN
 L010 T " " (T) #4-40 THREAD

SHAFT STYLES

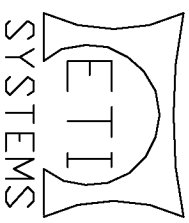


DIMENSION TABLE

| DASH NO. | MECHANICAL STROKE ±.060 | ELECTRICAL STROKE ±.040 | LINEARITY INDEPENDENT | A ±.040 | B ±.040 | APPROX. WEIGHT | POWER RATING |
|----------|-------------------------|-------------------------|-----------------------|---------|---------|----------------|--------------|
| -30 | 1.260 | 1.181 | ± 1.0% | 3.346 | 5.708 | 1.4 OZ. | 0.5 W |
| -50 | 2.047 | 1.968 | ±0.7% | 4.134 | 7.283 | 1.8 OZ. | 0.75 W |
| -100 | 4.015 | 3.937 | ±0.5% | 6.102 | 11.220 | 2.1 OZ. | 1 W |

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.

TITLE
 OIL FILLED
 LINEAR MOTION
 POTENTIOMETER



CARLSBAD
 CALIFORNIA

PART NO. L010