

SPECIFICATIONS

ELECTRICAL

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

MECHANICAL

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

ENVIRONMENTAL

OPERATING TEMPERATURE ----- -30°C TD + 105°C
 TEMPERATURE COEFFICIENT ----- SEE CHART
 VIBRATION ----- 10HZ TD 2000HZ 10G
 SHOCK ----- 30G 11MS
 MOISTURE RESISTANCE ----- 40°C 95%RH 120 HRS.

MATERIALS

HOUSING ----- ANODIZED ALUMINUM
 SHAFT ----- STAINLESS STEEL
 BUSHING ----- ANODIZED ALUMINUM
 RESISTANCE ELEMENT ----- WIREWOUND

OPTIONAL FEATURES

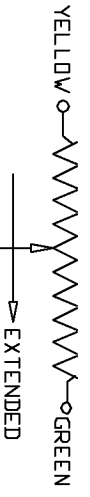
SHAFT MODIFICATIONS
 SPECIAL STROKES
 OIL FILLED

RESOLUTION CHART %

| RESISTANCE DASH NO. | 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 | | |
| -100 | | | .19 | .14 | .12 | .12 | .10 | .08 | .06 | .04 | .04 | .03 |

| 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 | 1.1 OZ | 0.5 W |
| -50 | 2.047 | 1.968 | ± 0.7% | 4.134 | 7.283 | 1.3 OZ | 0.75 W |
| -100 | 4.015 | 3.937 | ± 0.5% | 6.102 | 11.220 | 1.8 OZ | 1 W |

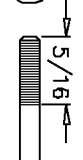
DIMENSION TABLE



SCHEMATIC

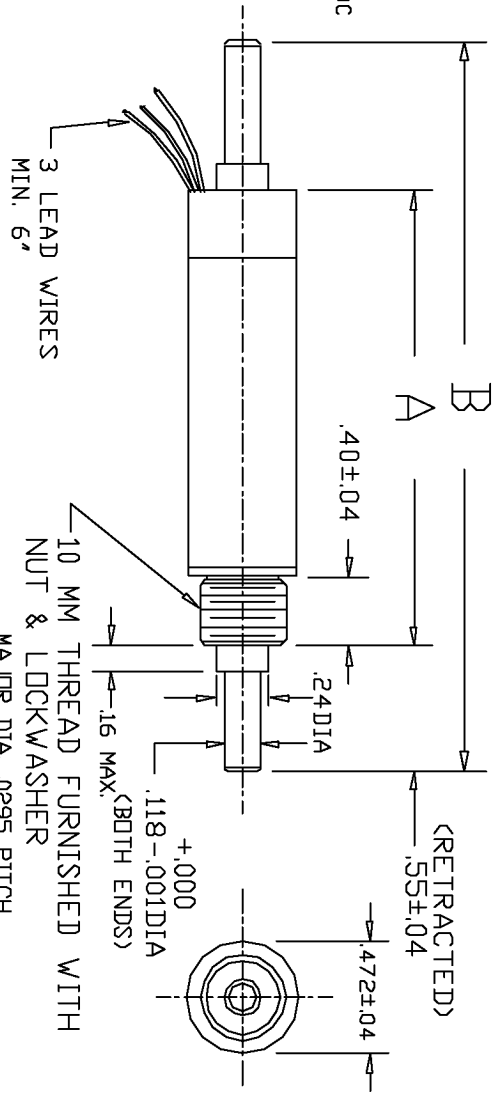
MODEL NO'S.

LWR10A -(STROKE)-(RES.) (A)



SHAFT STYLES

#4-40 THREAD



| REV. | BY | DATE | PART NO. |
|------|----|----------|----------|
| E | AT | 08-09 01 | LWR10 |

ADDED SHAFT OPTIONS AND STYLES

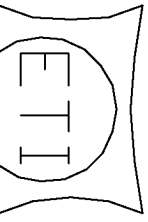
TOLERANCES

XX = +/- .010" FRACT. = +/- 1/64"
 XXX = +/- .005" ANGLES = +/- 1/2°

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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**LINEAR MOTION
 POTENTIOMETER**



CARLSBAD, CALIFORNIA

PART NO. LWR10