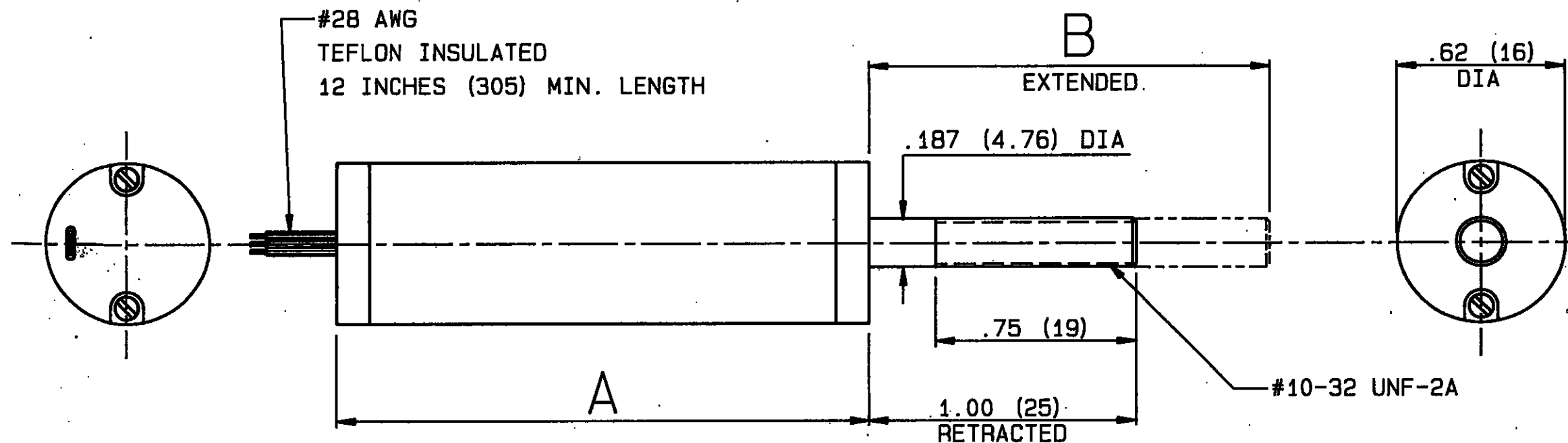


# 600 SERIES LINEAR MOTION POSITION TRANSDUCER



## ELECTRICAL SPECIFICATIONS

|                                                             |                |
|-------------------------------------------------------------|----------------|
| ELECTRICAL TRAVEL                                           | SEE TABLE      |
| RESISTANCE RANGE                                            | SEE TABLE      |
| RESISTANCE TOLERANCE                                        | ±20%           |
| INDEPENDENT LINEARITY                                       | SEE TABLE      |
| POWER RATING @ 70°C                                         | 0.25 WATTS     |
| PER INCH OF ELECTRICAL TRAVEL<br>DERATED TO 0 WATTS @ 125°C |                |
| OUTPUT SMOOTHNESS                                           | 0.1%           |
| RESOLUTION                                                  | INFINITE       |
| INSULATION RESISTANCE @ 500 VDC                             | 1000 MEGOHMS   |
| DIELECTRIC STRENGTH                                         | 500 VRMS       |
| TEMPERATURE RANGE                                           | -55° TO +125°C |

## MECHANICAL SPECIFICATIONS

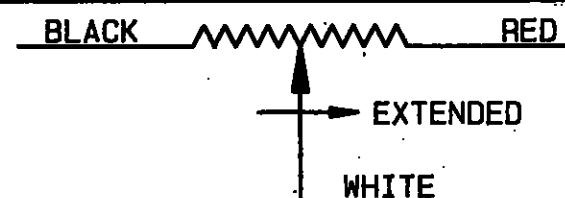
|                   |                                     |
|-------------------|-------------------------------------|
| MECHANICAL TRAVEL | ELECTRICAL TRAVEL<br>+0.1 INCH MIN. |
| ACTUATION FORCE   | 2 OZ. MAX.                          |
| REPEATABILITY     | WITHIN .0005 IN.                    |
| LIFE              | 10 x 10 <sup>6</sup> CYCLES         |

## NOTES:

1. DIMENSIONS ARE IN INCHES (mm). TOLERANCE: ±.03 (±.8)
2. AVAILABLE IN DUAL CONFIGURATION.
3. MOST SPECIFICATIONS MAY BE ALTERED TO MEET SPECIFIC REQUIREMENTS.
4. OTHER TRAVELS AVAILABLE.

|     |      |      |             |             |             |
|-----|------|------|-------------|-------------|-------------|
| 612 | 12.0 | 0.08 | 12.00 (305) | 13.50 (343) | 13.10 (333) |
| 610 | 10.0 | 0.09 | 10.00 (254) | 11.50 (292) | 11.10 (282) |
| 606 | 6.0  | 0.12 | 6.00 (152)  | 7.50 (190)  | 7.10 (180)  |
| 604 | 4.0  | 0.15 | 4.00 (102)  | 5.50 (140)  | 5.10 (129)  |
| 603 | 3.0  | 0.25 | 3.00 (76)   | 4.50 (114)  | 4.10 (104)  |
| 602 | 2.0  | 0.35 | 2.00 (51)   | 3.50 (89)   | 3.10 (79)   |
| 601 | 1.0  | 0.70 | 1.00 (25)   | 2.50 (57)   | 2.10 (53)   |

| MODEL | RESISTANCE<br>K $\Omega$ | LINEARITY<br>±% | ELECTRICAL<br>TRAVEL [4] | A<br>DIMENSIONS | B<br>DIMENSIONS |
|-------|--------------------------|-----------------|--------------------------|-----------------|-----------------|
|-------|--------------------------|-----------------|--------------------------|-----------------|-----------------|



**DUNCAN electronics, Inc.**  
COSTA MESA, CALIFORNIA

DWG. NAME  
**OUTLINE  
600 SERIES**

DWG. NO.  
**600-50**

REL. DATE  
**4-28-88**

REV.  
**C**