600 SERIES LINEAR MOTION POSITION TRANSDUCER

#28 AWG
TEFLON INSULATED
12 INCHES (305) MIN. LENGTH

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
- 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 +0.1 INCH MIN.
- ACTUATION FORCE: 2 OZ. MAX.
- REPEATABILITY: WITHIN .0005 IN.
- LIFE: 10 x 10⁶ CYCLES

NOTES:
1. DIMENSIONS ARE IN INCHES (mm). TOLERANCE: ±0.03 (±0.8).
2. AVAILABLE IN DUAL CONFIGURATION.
3. MOST SPECIFICATIONS MAY BE ALTERED TO MEET SPECIFIC REQUIREMENTS.
4. OTHER TRAVELS AVAILABLE.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>RESISTANCE Ka</th>
<th>LINEARITY ±%</th>
<th>ELECTRICAL TRAVEL 4</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>612</td>
<td>12.0</td>
<td>0.08</td>
<td>12.00 (305)</td>
<td>13.50 (343)</td>
<td>13.10 (333)</td>
</tr>
<tr>
<td>610</td>
<td>10.0</td>
<td>0.09</td>
<td>10.00 (254)</td>
<td>11.50 (292)</td>
<td>11.10 (282)</td>
</tr>
<tr>
<td>606</td>
<td>6.0</td>
<td>0.12</td>
<td>6.00 (152)</td>
<td>7.50 (190)</td>
<td>7.10 (180)</td>
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<tr>
<td>604</td>
<td>4.0</td>
<td>0.15</td>
<td>4.00 (102)</td>
<td>5.50 (140)</td>
<td>5.10 (129)</td>
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<tr>
<td>603</td>
<td>3.0</td>
<td>0.25</td>
<td>3.00 (76)</td>
<td>4.50 (114)</td>
<td>4.10 (104)</td>
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<tr>
<td>602</td>
<td>2.0</td>
<td>0.35</td>
<td>2.00 (51)</td>
<td>3.50 (89)</td>
<td>3.10 (79)</td>
</tr>
<tr>
<td>601</td>
<td>1.0</td>
<td>0.70</td>
<td>1.00 (25)</td>
<td>2.50 (57)</td>
<td>2.10 (53)</td>
</tr>
</tbody>
</table>

BLACK RED
WHITE

EXTENDED

SCHEMATIC

DUNCAN ELECTRONICS, INC.
COSTA MESA, CALIFORNIA

OUTLINE
600 SERIES

REF. NO. 600-50
REV. C

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