HIGH-ACCURACY DISPLACEMENT TRANSDUCERS

LD620 Series

Starts at $400

- Less Than 0.2% Linearity
- 5 to 150 mm Travel Lengths Available
- Rugged 19 mm Dia. Stainless Steel Body
- Rigid Stainless Steel Carriers
- Guided Core with Removable Spring
- IP67 Environmental Rating
- Large Bore-to-Core Clearance

The LD620 DC output displacement transducers have improved IP67-rated sealing, coupled with new polymer guides with rigid carriers. These transducers are accurate and reliable, especially in wet and corrosive conditions.

Output options are either ±5 Vdc (LD620) or 0 to 10 Vdc (LD621). An unusually large bore-to-core clearance is maintained throughout the range. This makes installation easier and helps prevent misalignment.

SPECIFICATIONS

- Linearity: <0.2% FSO
- Excitation Voltage: 10 to 30 Vdc @ 100 mA
- Output: LD620, ±5 Vdc; LD621, 0 to 10 Vdc
- Output Ripple: 0.02% FSO
- Bandwidth: 500 Hz (-3 dB)
- Storage Temp: -20 to 85°C (-4 to 185°F)
- Operating Temp: 0 to 65°C (32 to 149°F)
- Sealing: IP67
- Vibration (Sinusoidal Frequency): 10 to 50 Hz: Amplitude 1 to 10 g rms linear
- 50 Hz to 1 kHz: Amplitude 10 g rms linear
- Shock:
  - Drop Testing: 1 m (3') onto hard surface
  - Topple Testing: 10 times each end onto hard surface
- Case Material: 300 SS
- Cable: PFA, 2 m (6') long
- Core Material: Nickel-iron

LD620 Series Model Numbers

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>RANGE (mm)</th>
<th>PRICE</th>
<th>&quot;A&quot; DIM (mm)</th>
<th>&quot;B&quot; DIM (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>±5 Vdc</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD620-2.5</td>
<td>±2.5 (±0.1)</td>
<td>$400</td>
<td>94.0 (3.7)</td>
<td>35.3 (1.4)</td>
</tr>
<tr>
<td>LD620-5</td>
<td>±5 (±0.2)</td>
<td>435</td>
<td>113.5 (4.5)</td>
<td>46.3 (1.8)</td>
</tr>
<tr>
<td>LD620-7.5</td>
<td>±7.5 (±0.3)</td>
<td>455</td>
<td>120.7 (4.8)</td>
<td>50.3 (2.0)</td>
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<tr>
<td>LD620-10</td>
<td>±10 (±0.4)</td>
<td>475</td>
<td>135.0 (5.3)</td>
<td>61.3 (2.4)</td>
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<tr>
<td>LD620-15</td>
<td>±15 (±0.5)</td>
<td>495</td>
<td>149.4 (5.9)</td>
<td>79.3 (3.1)</td>
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<tr>
<td>LD620-25</td>
<td>±25 (±1.0)</td>
<td>540</td>
<td>170.9 (6.7)</td>
<td>102.3 (4.0)</td>
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<tr>
<td>LD620-50</td>
<td>±50 (±2.0)</td>
<td>565</td>
<td>228.5 (9.0)</td>
<td>160.3 (6.3)</td>
</tr>
<tr>
<td>LD620-75</td>
<td>±75 (±3.0)</td>
<td>585</td>
<td>278.7 (10.0)</td>
<td>231.3 (9.1)</td>
</tr>
</tbody>
</table>

Ordering Example: LD620-2.5, DC displacement sensor with range of ±2.5 mm (±0.1) with output of ±5 Vdc, $400.

ACCESSORIES

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>PRICE</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>LD-TIP</td>
<td>$45</td>
<td>Tip adaptor/ball tip</td>
</tr>
<tr>
<td>LD-UJOINT-KIT</td>
<td>130</td>
<td>U-joint retro fit kit</td>
</tr>
<tr>
<td>EE-0515</td>
<td>150</td>
<td>Reference Book: Electronics Engineer’s Handbook</td>
</tr>
</tbody>
</table>

Most Popular Models Highlighted!

LD-UJOINT-KIT, $160, shown smaller than actual size.

LD620-25, $540, shown smaller than actual size.

Dimensions: mm (in)

- "A" body length 11.00 (0.43)
- "B" core length 5.00 (0.20)
- Full extended 25.00 (1.00)
- M6 x 0.6g

Wiring Code

RED + EXC
BLUE – EXC
YELLOW + SIG
GREEN - SIG

To Order (Specify Model Number)
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**
  Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

- **Heaters**