DR553
Direct Replacement Encoder for Dynapar Rotopulser Model 60

The Accu-Coder™ DR553 is a direct replacement encoder for the Dynapar Rotopulser Model 60. These encoders are used on Ink Jet printers, cut to length applications, motor drive speed feedback, and a variety of other applications. If you have tried to order the Rotopulser 60 you may have encountered long lead times. The DR553 from Encoder Products Company is the perfect substitution for the Rotopulser 60.

Order the DR553 as a Direct Replacement Encoder for Videojet Triumph and Excel Printers!

DR553 Price: $620

Additional discounts available for volume orders.

Features:
- 3.5” servo hub on a rugged 2” encoder
- 1/2” stainless steel shaft
- Quadrature with index
- Resolutions up to 2500 CPR
- Line Driver and Push-Pull outputs
- 5 to 28 VDC
- 6-pin and 10-pin side mount MS connectors
- Sealing of IP64

Model DR553 CPR Options

<p>| | | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>0002</td>
<td>0004</td>
<td>0005</td>
<td>0006</td>
<td>0010</td>
<td>0012</td>
<td>0020</td>
<td>0025</td>
<td>0040</td>
<td>0045</td>
<td>0050</td>
<td>0060</td>
<td>0064</td>
<td>0100</td>
<td>0120</td>
<td>0125</td>
</tr>
<tr>
<td>0150</td>
<td>0180</td>
<td>0192</td>
<td>0200</td>
<td>0240</td>
<td>0250</td>
<td>0256</td>
<td>0300</td>
<td>0360</td>
<td>0400</td>
<td>0500</td>
<td>0512</td>
<td>0530</td>
<td>0600</td>
<td>0625</td>
<td>0720</td>
<td>0800</td>
</tr>
<tr>
<td>1000</td>
<td>1024</td>
<td>1200</td>
<td>1270</td>
<td>1500</td>
<td>1800</td>
<td>2000</td>
<td>2400</td>
<td>2500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Blue type indicates price adder options. Contact Customer Service for details.

The Accu-Coder™ Advantage
- ✓ Get this encoder FAST — you’ll get your encoders in days, not weeks.
- ✓ Huge savings in price comparison — the DR553 is your economical solution
- ✓ The accuracy, reliability, and quality that only come from an Accu-Coder™
- ✓ Industry Best 3-year warranty!
Model DR553 Specifications

**Electrical**
- Input Voltage: 4.75 to 28 VDC max for temperatures up to 70°C
- Input Current: 100 mA max with no output load
- Input Ripple: 100 mV peak-to-peak at 0 to 100 kHz
- Output Format: Incremental – Two square waves in quadrature with channel A leading B for clockwise shaft rotation, as viewed from the encoder mounting face. See Waveform Diagrams below.
- Output Type: Push-Pull – 20 mA max per channel
  - Line Driver – 20 mA max per channel (Meets RS 422 at 5 VDC supply)
  - Index – Occurs once per revolution. See Waveform Diagrams below.
- Freq Response: Up to 100 kHz.
- Noise Immunity: Tested to BS EN61000-4-2; IEC801-3; BS EN50081-2; BS EN50082-2; BS EN50080-2
- Symmetry: 180° (±18°) electrical at 100 kHz output
- Quad Phasing: 90° (±22.5°) electrical at 100 kHz output
- Min Edge Sep: 67.5° electrical at 100 kHz output
- Rise Time: Less than 1 microsecond
- Accuracy: Instrument and Quadrature Error: For 200 to 1999 CPR, 0.017° mechanical (0.6 arc minutes) from one cycle to any other cycle. For 2000 to 2500 CPR, 0.01° mechanical (1.0 arc minutes) from one cycle to any other cycle.
- Accuracy: Precision ABC ball bearings
- Environmental: Operating Temp: 0° to 70°C for standard models
  - Storage Temp: -25° to 85°C
  - Humidity: 98% RH non-condensing
  - Vibration: 20 g @ 50 to 500 Hz
  - Shock: 75 g @ 11 ms duration
  - Sealing: Protective coating

**Mechanical**
- Max Shaft Speed: 8000 RPM. Higher shaft speeds may be achievable, contact Customer Service.
- Shaft Size: 0.50”
- Shaft Rotation: Bi-directional
- Radial Shaft Load: 60 lb max. Rated load of 20 to 40 lb for bearing life of 1.5 x 10^9 revolutions.
- Axial Shaft Load: 20 lb max. Rated load of 20 to 40 lb for bearing life of 1.5 x 10^9 revolutions.
- Starting Torque: 1 oz-in typical with IP66 seal or no seal
- Moment of Inertia: 5.2 x 10^-4 oz-in-sec^2
- Max Acceleration: 1 x 105 rad/sec^2
- Connector Type: 6- and 10-pin side mount MS connector
- Housing: All metal construction with black protective coating
- Bearings: Precision ABC ball bearings
- Mounting: 3.5” servo mount
- Weight: 11 oz typical

**Environmental**
- Operating Temp: 0° to 70°C for standard models
- Storage Temp: -25° to 85°C
- Humidity: 98% RH non-condensing
- Vibration: 20 g @ 50 to 500 Hz
- Shock: 75 g @ 11 ms duration
- Sealing: Protective coating

**Mating Connectors**
- To order a 6-pin MS mating connector order stock # 080014
- To order a 10-pin MS mating connector order stock # 080113

**Cordsets**
- To order a 10-pin MS cable assembly order stock # 410C-xxx-HV-R-N-SPEC553

Don’t see the exact encoder you need replaced? Call 1-800-366-5412 and our Technical Services Department will cross-reference the encoder to the correct EPC model.