**Dimension Sheet: DC25 Incremental DuraCoder with 5/8" Shaft and Stainless Steel Body**

**DESCRIPTION**

This sheet gives the physical dimensions and connector pinout, as well as the mechanical and environmental specifications for a DC25 Incremental DuraCoder with a 5/8" shaft and stainless steel body option. A complete manual for this product is available on the AMCI website, www.amci.com.

**DIMENSIONAL DRAWING**

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**NOTES:**

1) Integral Shaft Seal.
2) 1/4-20 UNC-2B 0.50" (12.7) minimum depth. Six Places.
3) Additional clearance needed for removal of mating connector.

**KEYWAY SPECIFICATIONS**

<table>
<thead>
<tr>
<th>KEYWAY</th>
<th>Included Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1895&quot; (4.813)</td>
<td>0.108&quot; (2.74)</td>
</tr>
<tr>
<td>0.1885&quot; (4.788)</td>
<td>0.106&quot; (2.69) Deep</td>
</tr>
<tr>
<td>0.188&quot; (4.78)</td>
<td>0.187&quot; (4.75) Sq.</td>
</tr>
<tr>
<td>1.00&quot; (25.4)</td>
<td>1.00&quot; (25.4)</td>
</tr>
</tbody>
</table>

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( ) = Dimensions in millimeters

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**LEADERS IN ADVANCED CONTROL PRODUCTS**
**DC25 Dimension Sheet**

**CONNECTOR PINOUT**

<table>
<thead>
<tr>
<th>Pin #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power Supply Ground</td>
</tr>
<tr>
<td>2</td>
<td>+Vdc</td>
</tr>
<tr>
<td>3</td>
<td>+A Out</td>
</tr>
<tr>
<td>4</td>
<td>–A Out (Differential Only)</td>
</tr>
<tr>
<td>5</td>
<td>+B Out</td>
</tr>
<tr>
<td>6</td>
<td>–B Out (Differential Only)</td>
</tr>
<tr>
<td>7</td>
<td>+Z Out</td>
</tr>
<tr>
<td>8</td>
<td>–Z Out (Differential Only)</td>
</tr>
</tbody>
</table>

**MECHANICAL SPECIFICATIONS**

- **Package Style**
  - 2.5 inch housing with flange mounting

- **Connector Location**
  - Side

- **Housing**
  - 316 stainless steel

- **Shaft**
  - 0.625" with keyway

- **Max. Starting Torque @ 25°C**
  - 6.0 oz-in

- **Moment of Inertia (oz-in-sec²)**
  - 8.50 X 10⁴

- **Max. Operating Speed**
  - 6000 RPM

- **Max. Shaft Loading**
  - Axial: 50 lbs. (222 N)
  - Radial: 100 lbs. (445 N)

  *At the specified maximum loads, the average minimum bearing life is 2X10⁷ revolutions.*

**ENVIRONMENTAL SPECIFICATIONS**

- **Operating Temperature**
  - –40°F to +185°F (–40°C to +85°C)

- **Shock**
  - 50g, 11 millisecond duration

- **Vibration**
  - 20g, 5 to 2000Hz

- **Enclosure Rating**
  - IP68

- **Approximate Weight**
  - 3.9 lbs. (1.77 kg)