These sensors are designed to measure rotating drive torque using a conventional shaft-to-shaft configuration for in-line placement. The design incorporates a coin silver slip ring assembly that transmits excitation voltage to, and output signals from, the rotating sensor. These sensors can be supplied with Auto-ID, which eliminates scaling when used with the PTI or PMAC 2000 instruments. An optical encoder to measure angle or speed is also available with this model.

**OPTIONS:**

- 4 pin Bendix connector (non Auto-ID)
- 10 pin Bendix connector (Auto-ID)
- Integrated signal amplifier (+/-5V or +/-10V, 4-20mA)
- Integral optical encoder – 1024 ppr and 1500 ppr (requires 10 pin connector)
- Footmount

**SPECIFICATIONS**

- Capacity: 50 in. oz. to 20,000 in.lb. (.35 to 2300Nm)
- Overload capacity: 150% of F.S.
- Output at F.S.: 2.0 mV/V nominal
- Non-linearity: 0.10% of F.S.
- Hysteresis: 0.10% of F.S.
- Zero balance: 1.00% of F.S.
- Compensated temperature: 70 to 170°F
- Useable temperature: -40 to +185°F
- Temperature effect on zero: 0.002% of F.S./°F
- Temperature effect on span: 0.002% of Rdg./°F
- Bridge resistance: 1000 Ohms
- Excitation voltage, maximum: 20 Vdc
- Maximum shaft speed: 5000 RPM*
### Dimensions

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Capacity</th>
<th>Extraneous Load Coefficients</th>
<th>Optional Symm. Edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>01324-030</td>
<td>3.125 in. lbs. 150 in. oz.</td>
<td>1.030 56.7 223 4,300</td>
<td>182</td>
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<tr>
<td>01324-060</td>
<td>6.25 in. lbs. 100 in. oz.</td>
<td>678 26.1 102 2,060</td>
<td>556</td>
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<tr>
<td>01324-120</td>
<td>12.5 in. lbs. 100 in. oz.</td>
<td>435 18 70.5 997</td>
<td>1,660</td>
</tr>
<tr>
<td>01324-250</td>
<td>25 in. lbs. 100 in. oz.</td>
<td>214 10.9 42.7 390</td>
<td>7,120</td>
</tr>
<tr>
<td>01324-420</td>
<td>42.5 in. lbs. 1000 in. oz.</td>
<td>104 7.3 28.5 175</td>
<td>22,000</td>
</tr>
</tbody>
</table>

**Specifications**

- **Model:** 01324-XXX-G00XX
- **Capacity:** Charted
- **Output:** F.S. (mV/V Nom.) 2.0
- **Non-Linearity:** %F.S.,%O.S. 0.10
- **Hysteresis:** %F.S.,%O.S. 0.10
- **Bridge Resistance:** (OHM Nom.) 1000
- **Overload (Torque):** 150% F.S.
- **Max RPM:** 5,000
- **Max Temp Range:** -40 to +185°F

**Assembly DWG Ref.: 1898200**

**Installation:**

- **Model:** 01324-XXX-G00XX
- **Scale:** 1/2
- **Drawn by:** D.S.
- **Date:** 6-13-01
- **Unless otherwise specified, units are in inches.**

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**Dimensions (cont.)**

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## DIMENSIONS

### Torque Sensors – Rotary Shaft Slip Ring

#### Dimensions Table 1

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<th>MODEL NO.</th>
<th>CAPACITY</th>
<th>EXTRAVEOUS LOAD COEFFICIENTS</th>
<th>ORIGIONAL SPANCE (IN./RADx10^2)</th>
<th>Z NOM</th>
<th>REV.</th>
<th>DESCRIPTION</th>
<th>BY</th>
<th>DATE</th>
<th>CHK</th>
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01324
Torque Sensors – Rotary Shaft Slip Ring

DIMENSIONS

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