**Specification Sheet:**

**HTT-425-A1S-100**

**HTT-425-A1S-1000**

**DESCRIPTION**

Designed to mount directly on Allen-Bradley 1326AB-A4 servomotors, these transducers simplify resolver position feedback from these motors. These transducers are absolute position sensors that encode 100 or 1000 turns. Outside connections to the transducer are made through a watertight MS connector. These transducers connect to AMCI equipment using our standard CML cable. The transducer meets NEMA rating 13 when properly installed. A coupler to a 0.375" diameter shaft is included, and two access holes are available to make shaft coupling an easy task.

Because the HTT-425-A1S-(x) is an absolute sensor it cannot "lose counts" when rotating as an incremental transducer can. If the transducer appears to be losing counts when operating, the usual cause is a shaft slipping in the coupler.

**DIMENSIONAL DRAWING**

( ) = Dimensions in millimeters

<table>
<thead>
<tr>
<th>Fine Resistor</th>
<th>Coarse Resistor</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1: (RED/WHT)</td>
<td>R1: (RED/WHT)</td>
</tr>
<tr>
<td>R2: (BLK/WHT)</td>
<td>R2: (BLK/WHT)</td>
</tr>
<tr>
<td>S3: (BLACK)</td>
<td>S4: (BLUE)</td>
</tr>
<tr>
<td>S1: (RED)</td>
<td>S2: (YELLOW)</td>
</tr>
<tr>
<td>S2: (YELLOW)</td>
<td>S1: (RED)</td>
</tr>
<tr>
<td>S4: (BLUE)</td>
<td>S3: (BLACK)</td>
</tr>
</tbody>
</table>

Female Mating Connector ........... AMCI Part #

- MS3106A20-27S  STRAIGHT ........ MS-20
- MS3108A20-27S  RT. ANGLE ........ MS-22
- MS3106F20-27S  WATERTIGHT .... MS-201

Transducer mounts directly to 1326AB-A4 servo motor. Gasket and coupler to 0.375" (9.53) shaft is included with transducer.
**SPECIFICATIONS**

**ENVIRONMENTAL**
- Shock: 50 g’s for 11 mSec
- Vibration: 20 g’s to 2000 Hz
- Operating Temp: -20 to 125°C
- Enclosure: NEMA 13
  - Anodized Aluminum Body
  - 303 Stainless Steel Shaft

**MECHANICAL**
- Shaft Loading: Radial: 40 lbs. max.
  - 10 lbs. max. working
- Axial: 20 lbs. max.
  - 5 lbs. max. working
- Starting Torque: 1.5 oz.in. @ 25°C
- Moment of Inertia: 6.00X10⁻⁴ oz-in-sec² max.
- Weight: 4 lbs

**ELECTRICAL**
- Input Voltage: 7.0 V
- Input Freq: 5000 Hz
- Primary: Rotor
- Input Current: 17.0 mA Max.
- Trans. Ratio (TR): 0.95 ± 5%
- Accuracy: 5 min. (max error)

**SHARED COUPLER DIMENSIONS**

The included shaft coupler is for motors with a 0.375" diameter shaft. The coupler is manufactured by Helical and their part number is MCAC100-12-8.

- Permitted
  - Axial Motion: ±0.010"
  - Angular Misalignment: 5 degrees
  - Offset: 0.030"
- Torques
  - Non-reversing: 10 lb-in
  - Shock: 5 lb-in
  - Momentary: 20 lb-in

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**FOR MORE INFORMATION**

If you need more information on the HTT-425-A1S-100 or HTT-425-A1S-1000 use these three resources:

- If you have internet access, check our website at http://www.amci.com. We've worked hard to make our site the repository of information you need to specify and use AMCI products. New product news, product specifications, compatibility tables, application notes, and PDF manuals are all available 24 hours a day.

- You can also call AMCI for sales or technical support at (860) 585-1254 from 8AM to 5PM EST, Monday through Friday. An applications engineer will be available to assist you.

- Finally, you can e-mail us at sales@amci.com or techsupport@amci.com.