**DESCRIPTION**

Many older installations use a NEMA 56C face mounted encoder or tachogenerator like the GE BC-42 and BC-46 or Reliance RE-210 for position or speed feedback. Upgrading these installations is easy with an AMCI brushless resolver transducer. The HT-400-M1C4 single turn transducers are absolute sensors that have a standard NEMA 56C face mounting pattern and 1/2 inch conduit fitting. Their IP67 rating means these transducers are ready for the harshest industrial environments. The HT-400-M1C4 transducers can be ordered with a variety of resolvers to match your control system requirements. See page 2 of this spec sheet for a complete part number breakdown.

**DIMENSIONAL DRAWING**

![Dimensional Drawing](image)

- **KEYWAY**
  - 0.1885(4.79)
  - 0.1895(4.81)
- **KEY**
  - 0.187(4.75)
  - 0.188(4.78)

Keyway aligned as shown for zero reference.

( ) = Dimensions in millimeters
### SPECIFICATIONS

**Mechanical**
- Shaft Loading: Radial: 100 lbs. max.
- Axial: 50 lbs. max.
- *Bearing life rated at 2X10⁶ revolutions minimum at specified shaft load.*
- Starting Torque: 8 oz.in. @ 25°C
- Moment of Inertia: 8.75 oz-in-sec² max.
- Weight: 8.0 lbs

**Environmental**
- Shock: 50 g's for 11 milliseconds
- Vibration: 15 g's to 2000 Hz
- Operating Temp: -20 to 125°C
- Enclosure: IP67 when conduit properly sealed. Anodized Aluminum body
- 303 Stainless Steel Shaft
- Nitrile Shaft Seal

### PART NUMBERING SYSTEM

**Base Part Number**
- NEMA 56C Face Mount
- 0.5" Conduit Fitting

**Resolver Type**
- "J" = AMCI Standard
- "L" = AVG/Autotech and Gemco Standard
- "C" = ElectroCam and Namco/C&A Standard

*Other resolver are available, consult factory for assistance.*

### WIRING

When wiring to the HTT-400-M1C4, start by removing the back plate of the transducer. Feed your cable through the conduit fitting and wire your cable to the transducer's terminal block.

The internal terminal block is labeled with the resolver designations. The table below gives resolver designations to the standard wire colors used by AMCI. (Belden 9783 or equ.)

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>Black/Red*</td>
</tr>
<tr>
<td>R2</td>
<td>Red</td>
</tr>
<tr>
<td>FS1</td>
<td>White</td>
</tr>
<tr>
<td>FS2</td>
<td>Black/Green*</td>
</tr>
<tr>
<td>FS3</td>
<td>Black/White*</td>
</tr>
<tr>
<td>FS4</td>
<td>Green</td>
</tr>
</tbody>
</table>

* Black/"color" refers to the Black wire of the Black/"color" pair.