

## HT-6 Specification Sheet

SHEET # 940-2T012

### DESCRIPTION

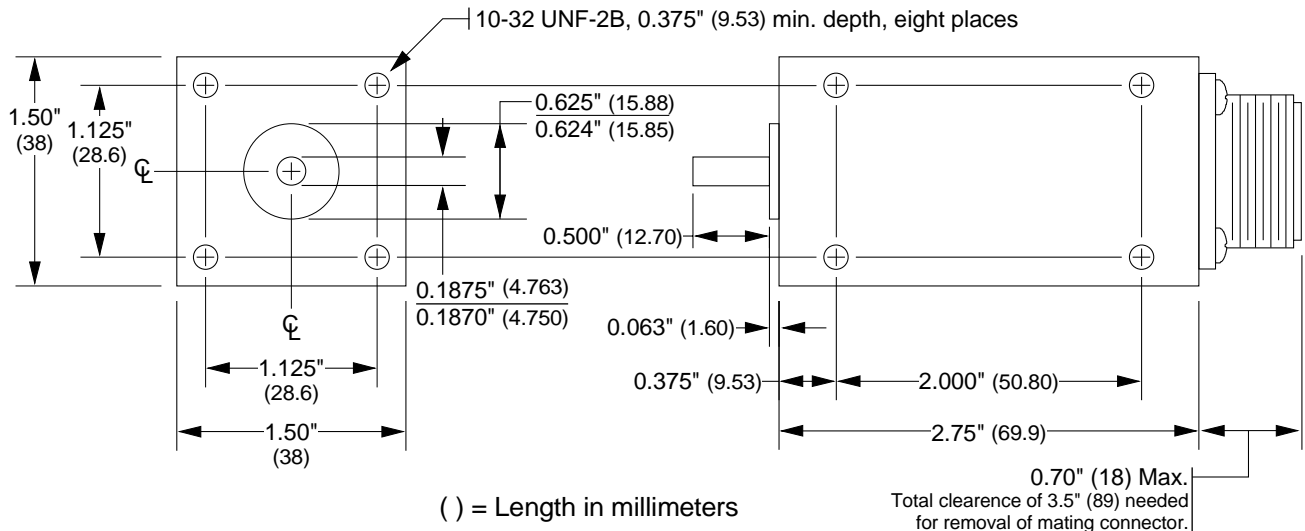
Designed for single turn applications that require a small, environmentally sealed package, the HT-6 is AMCI's smallest NEMA 13 transducer. A solid aluminum block protects the resolver body and provides convenient mounting holes. An MS connector and gasket seals the back of the package and allows you to connect the HT-6 to standard AMCI transducer cabling.

The resolver's 3/16" shaft extends outside of the aluminum block. A shaft seal behind the pilot prevents the entry of airborne and liquid contaminants into the front bearing. Because of the HT-6's small shaft size, observe the radial and axial load specifications to insure long bearing life. Due to the small bearing and shaft size, a flexible coupler must be used when connecting the HT-6 to your machinery. Even a small mis-alignment or movement in the machine shaft can cause very large radial and axial loads on the transducer bearing if the two shafts are directly coupled.

When mounting the HT-6, the shaft hole must be at least 0.625" in diameter so that the pilot can pass through. If your pilot hole is smaller than 0.625", you are likely to compress the front of the pilot when mounting the transducer. This may compress the shaft bearing which will shorten its life.

Because the HT-6 is an absolute sensor, it cannot "lose counts" as an incremental transducer can. If the HT-6 appears to be losing counts when operating, the usual cause is a shaft slipping in a loose coupler. Check all mechanical couplings and use shaft keys wherever possible.

### DIMENSIONAL DRAWING



### SPECIFICATIONS

#### MECHANICAL

Shaft Loading: Radial: 8 lbs. max.  
Axial: 4 lbs. max.  
Starting Torque: 0.5 oz.in. @ 25°C  
Moment of Inertia:  $2.1 \times 10^{-4}$  oz-in-sec<sup>2</sup> max.  
Weight: 0.7 lb.

#### ENVIRONMENTAL

Shock: 50 g's for 11 mSec  
Vibration: 15 g's to 2000 Hz  
Operating Temp: -20 to 125°C  
Enclosure: NEMA 13

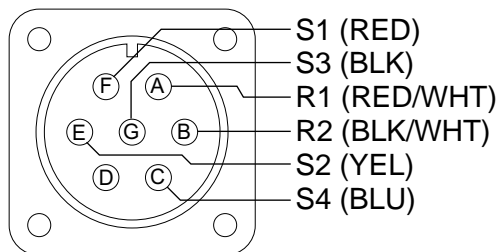
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## CONNECTOR PINOUT

The figure below shows the connector pinout to industry standard designations and wire colors. Mating connectors available from AMCI are also given.

**BENDIX CONNECTOR: MS3102E16S-1P**



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

MS3106A16S-1S	STRAIGHT	.....	MS-16
MS3108A16S-1S	RT. ANGLE	.....	MS-18
MS3106F16S-1S	WATERTIGHT	....	MS-161

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## FOR MORE INFORMATION

If you need more information on the HT-6 use these four resources:

- \* Check the manual that came with the AMCI module or controller you're using. If the HT-6 is compatible with the unit, its manual will contain transducer cable wiring diagrams and complete information on all of the AMCI transducers that are compatible with the unit.
- \* If you have internet access, check our website at <http://www.amci.com>. We've worked hard to make our site the respository 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](mailto:sales@amci.com) or [techsupport@amci.com](mailto:techsupport@amci.com).