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# H25-FS-05 Specification Sheet

SHEET # 940-2T730

## DESCRIPTION

The H25-FS-05 is an AMCI size 25, flange mount, single turn transducer with an side connector that is a boltin replacement for most flange mount optical encoders. Its IP 67 rating means it will survive most industrial applications including washdowns. Because this transducer is a resolver instead of an optical encoder, it can be used in harsh applications where an optical encoder cannot even be considered.

This transducer is designed primarily for applications using pulleys and gears mounted under tension. These applications often require a higher radial load rating to prevent slippage. The transducer's 5/8" shaft is rated for 2 billion rotations at a maximum radial load of 100 pounds and a maximum axial load of 50 pounds.

The transducer is mounted with 1/4"-20 bolts to accommodate these larger shaft load ratings. In addition to the four bolt holes on the front of the unit that uses standard optical encoder spacing, the transducer has two holes on the bottom of the flange. Because the H25-FS-05 is an absolute sensor, it cannot "lose counts" as an incremental transducer can. If the H25-FS-05 appears to be losing counts when operating, the usual cause is a shaft slipping in a loose coupler.

## DIMENSIONAL DRAWING



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#### **SPECIFICATIONS CONNECTOR PINOUT** The figure below shows the connector pinout to **ELECTRICAL** industry standard designations and wire colors. Input Voltage: 7.0 V Mating connectors available from AMCI are also Input Freq: 5000 Hz aiven. Primary: Rotor Input Current: 20.0 mA Max. BENDIX CONNECTOR: MS3102E16S-1P Output Voltage: 6.65 V Nom. Trans. Ratio (TR): 0.95 ± 5% S1 (RED) Accuracy: ± 12 min. (max error) S3 (BLK) $(\mathbf{F})$ (A) R1 (RED/WHT) **MECHANICAL** Ġ (B) R2 (BLK/WHT) Shaft Loading: Radial: 100 lbs. max<sup>†</sup>. E) S2 (YEL) Axial: 50 lbs. max<sup>+</sup>. Ĉ S4 (BLU) Starting Torque: 6.0 oz.in. @ 25°C Moment of Inertia: 8.50X10<sup>-4</sup> oz-in-sec<sup>2</sup> max. Weight: 1.8 lb. + Bearing life rated at 2X10<sup>9</sup> revolutions min. at maximum shaft load. Female Mating Connector ...... AMCI Part # **ENVIRONMENTAL** MS3106A16S-1S STRAIGHT ...... MS-16 Shock: 50 g's for 11 mSec MS3108A16S-1S RT. ANGLE ...... MS-18 Vibration: 15 g's to 2000 Hz MS3106F16S-1S WATERTIGHT .... MS-161 Operating Temp: -20 to 125°C Enclosure: IP 67 **Power Coated** Aluminum Body 303 Stainless Steel Shaft Nitrile Shaft Seal

### FOR MORE INFORMATION

If you need more information on the H25-FS-05 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 respository of information you need to specify and use AMCI products. New
product news, product specifications, compatibality 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.