

H25-FS Specification Sheet

SHEET # 940-2T185

DESCRIPTION

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

The outline drawing below details our standard unit with a 3/8" shaft. This transducer is also available with a 1/4" or 10mm shaft or a 3/8" shaft with a three millimeter keyway under the following part number. Dimensional drawing of the shaft are on the next page.

H25 FS 03: 1/4" Dia. Shaft

H25 FS 06: 3/8" Dia. Shaft with 3mm Keyway

H25 FS 10: 10mm Dia. Shaft

Because the H25 FS is an absolute encoder, it cannot "lose count" as an incremental transducer can. If the H25 FS appears to be losing count when operating, the usual cause is a shaft slipping in a loose coupler.

SPECIFICATIONS

ELECTRICAL

Input Voltage: 7.0 V

Input Freq: 5000 Hz

Primary: Rotor

Input Current: 20.0 mA Max.

Output Voltage: 6.65 V Nom.

Trans. Ratio (TR): $0.95 \pm 5\%$

Accuracy: ± 10 min. (max error)

MECHANICAL

Shaft Loading: Radial: 40 lb. max[†].

Axial: 20 lb. max[†].

Starting Torque: 2.0 oz.in. @ 25°C

Moment of Inertia: 6.00×10^{-4} oz in² sec² max.

Weight: 1.3 lb.

[†] Bearing life rated at 2×10^9 revolution min. at maximum shaft load.

ENVIRONMENTAL

Shock: 50 g's for 11 mSec

Vibration: 15 g's to 2000 Hz

Operating Temp: 40 to 125°C

Enclosure: IP 67

Power Coated

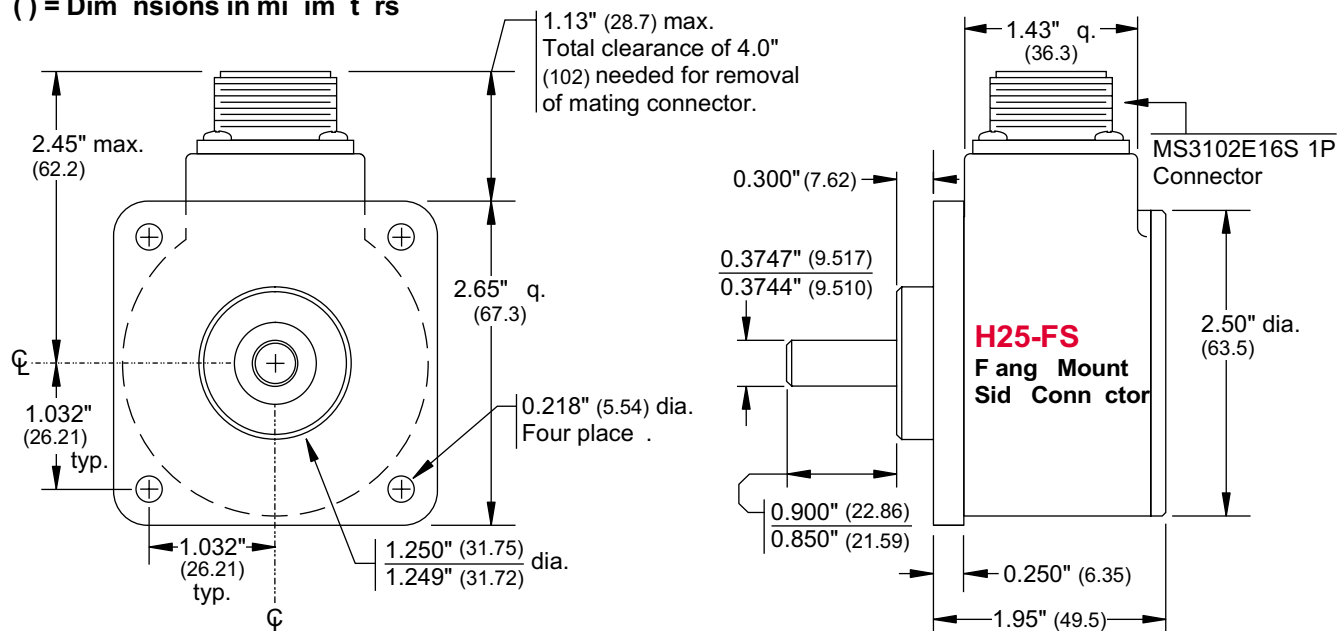
Aluminum Body

303 Stainless Steel Shaft

Nitrile Shaft Seal

DIMENSIONAL DRAWING

() = Dimensions in millimeters

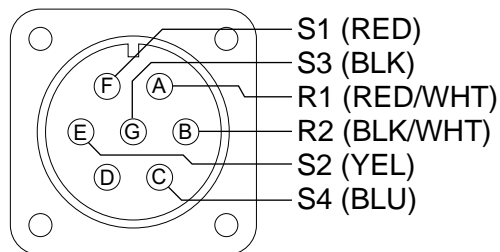


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CONNEX OR PINOUT

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

BENDIX CONNEX OR: MS3102E16S-1P

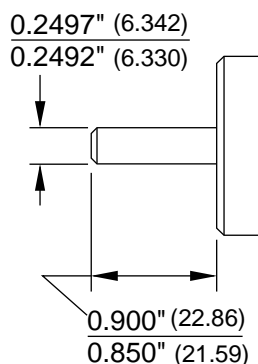


Female Mating Connector AMCI Part #

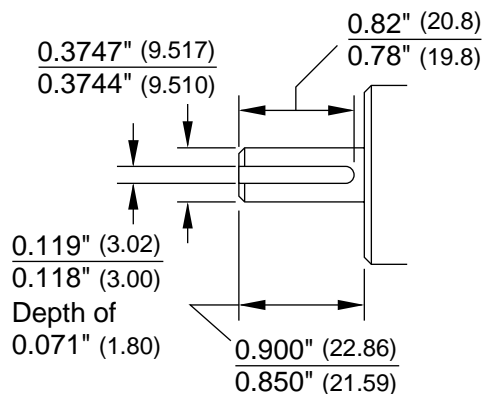
MS3106A16S 1S	STRAIGHT	MS 16
MS3108A16S 1S	RT. ANGLE	MS 18
MS3106F16S 1S	WATERTIGHT	MS 161

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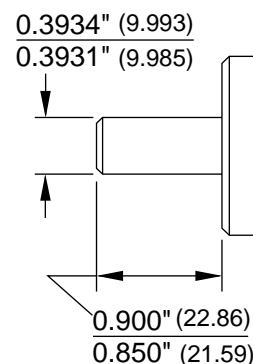
-03 Shaft



-06 Shaft



-10 Shaft



FOR MORE INFORMATION

If you need more information on the H25 FS use the 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 product. New product news, product specification, compatibility table, application note, and PDF manual 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 application engineer will be available to assist you.
- * Finally, you can e-mail us at sales@amci.com or techsupport@amci.com.