

H25-SE Specification Sheet

SHEET # 940-2T194

DESCRIPTION

The H25-SE is an AMCI size 25, servo mount, single turn transducer with an end connector that is a bolt-in replacement for most servo 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.

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 numbers. Dimensional drawings of these shafts are on the next page.

- H25-SE-03: 1/4" Dia. Shaft
- H25-SE-06: 3/8" Dia Shaft with 3mm Keyway
- H25-SE-10: 10mm Dia. Shaft

Because the H25-SE is an absolute sensor, it cannot "lose counts" as an incremental transducer can. If the H25-SE appears to be losing counts 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 ± 5%
- Accuracy: ± 12 min. (max error)

MECHANICAL

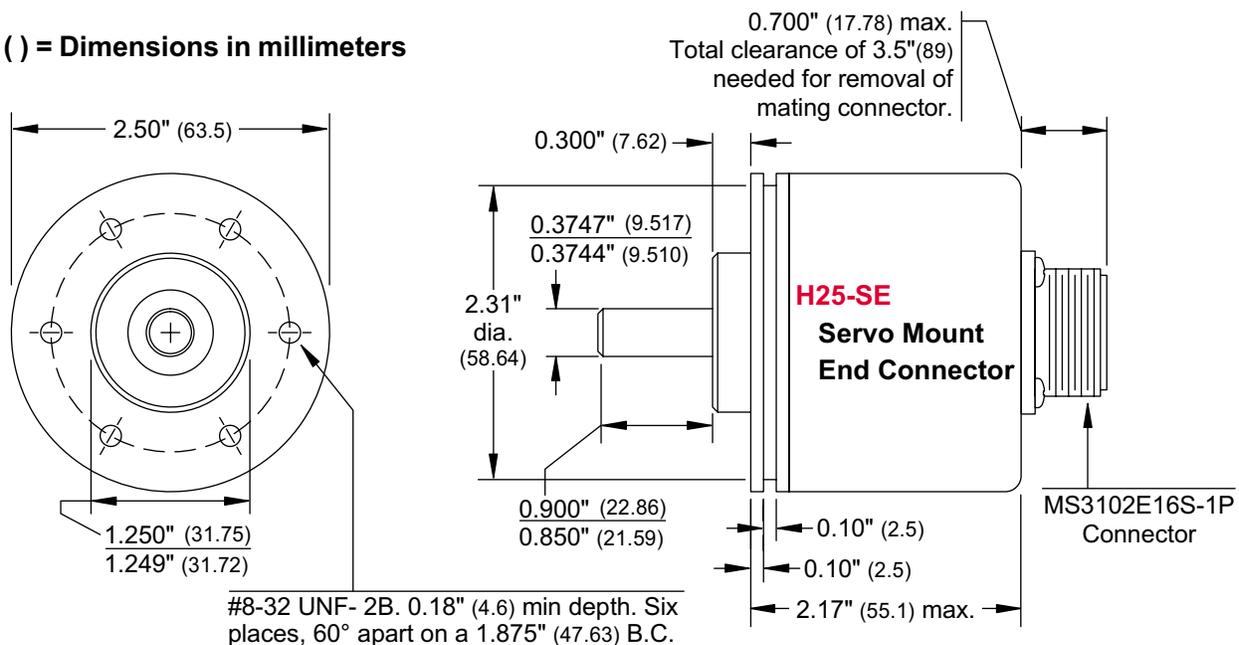
- Shaft Loading: Radial: 40 lbs. max†.
- Axial: 20 lbs. max†.
- Starting Torque: 2.0 oz.in. @ 25°C
- Moment of Inertia: 6.00X10⁻⁴ oz-in-sec² max.
- Weight: 1.3 lb.
- † Bearing life rated at 2X10⁹ revolutions min. at maximum shaft load.

ENVIRONMENTAL

- Shock: 50 g's for 11 mSec
- Vibration: 15 g's to 2000 Hz
- Operating Temp: -20 to 125°C
- Enclosure: IP 67
- Power Coated
- Aluminum Body
- 303 Stainless Steel Shaft
- Nitrile Shaft Seal

DIMENSIONAL DRAWING

() = Dimensions in millimeters

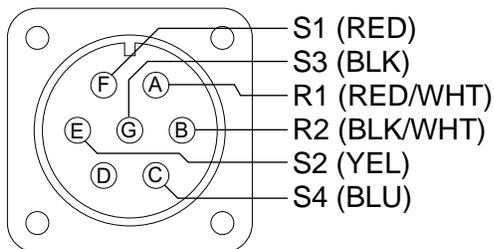


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CONNECTOR PINOUT

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

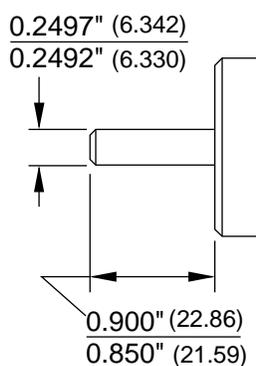


Female Mating Connector AMCI Part #

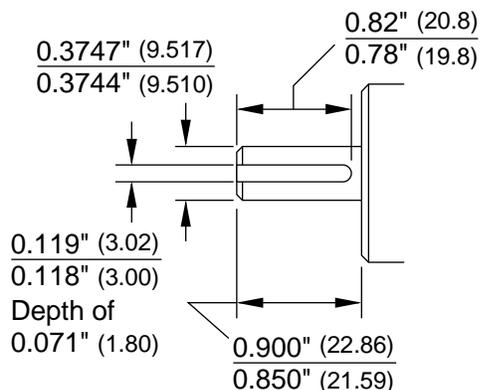
MS3106A16S-1S	STRAIGHT	MS-16
MS3108A16S-1S	RT. ANGLE	MS-18
MS3106F16S-1S	WATERTIGHT	MS-161

ALTERNATE SHAFT DETAIL

-03 Shaft



-06 Shaft



-10 Shaft

