

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): $0.95 \pm 5\%$

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: 6.00×10^{-4} oz-in-sec² max.

Weight: 1.3 lb.

[†] Bearing life rated at 2×10^9 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

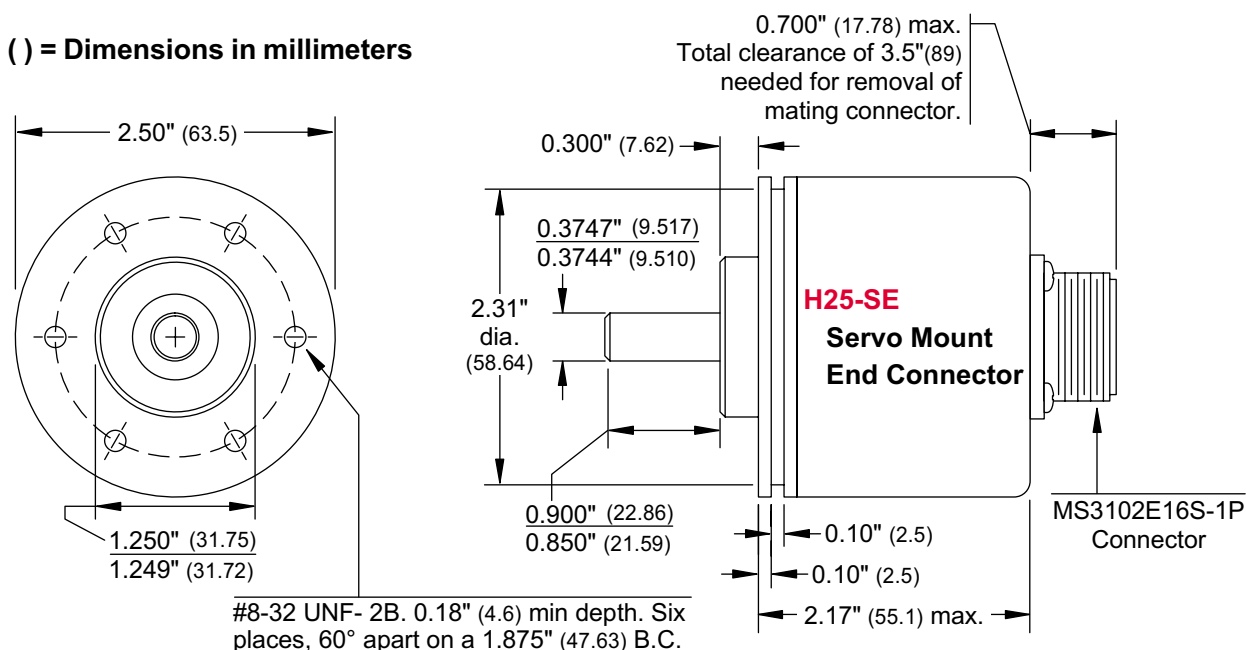
Aluminum Body

303 Stainless Steel Shaft

Nitrile Shaft Seal

DIMENSIONAL DRAWING

() = Dimensions in millimeters

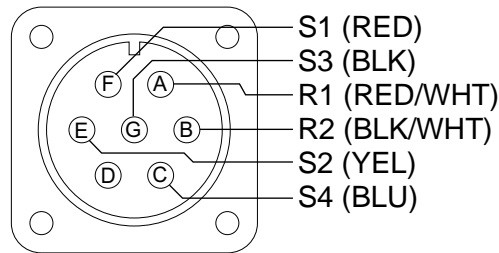


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CONNECTOR PINOUT

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

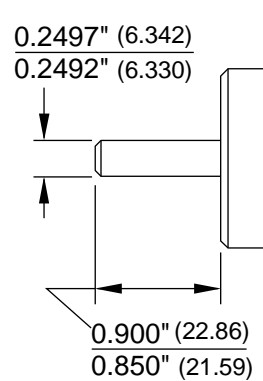
BENDIX CONNECTOR: MS3102E16S-1P



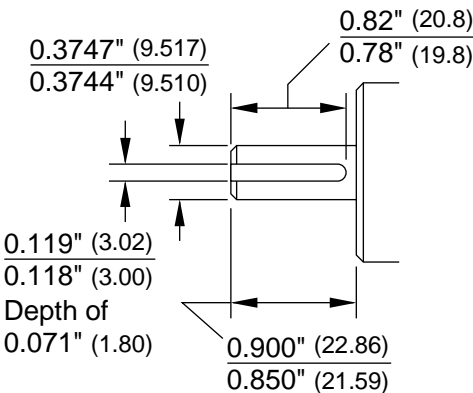
Female Mating Connector AMCI Part #		
MS3106A16S-1S	STRAIGHT	MS-16
MS3108A16S-1S	RT. ANGLE	MS-18
MS3106F16S-1S	WATERTIGHT	MS-161

ALTERNATE SHAFT DETAIL

-03 Shaft



-06 Shaft



-10 Shaft

