

# H25C-FE Specification Sheet

SHEET # 940-2T902

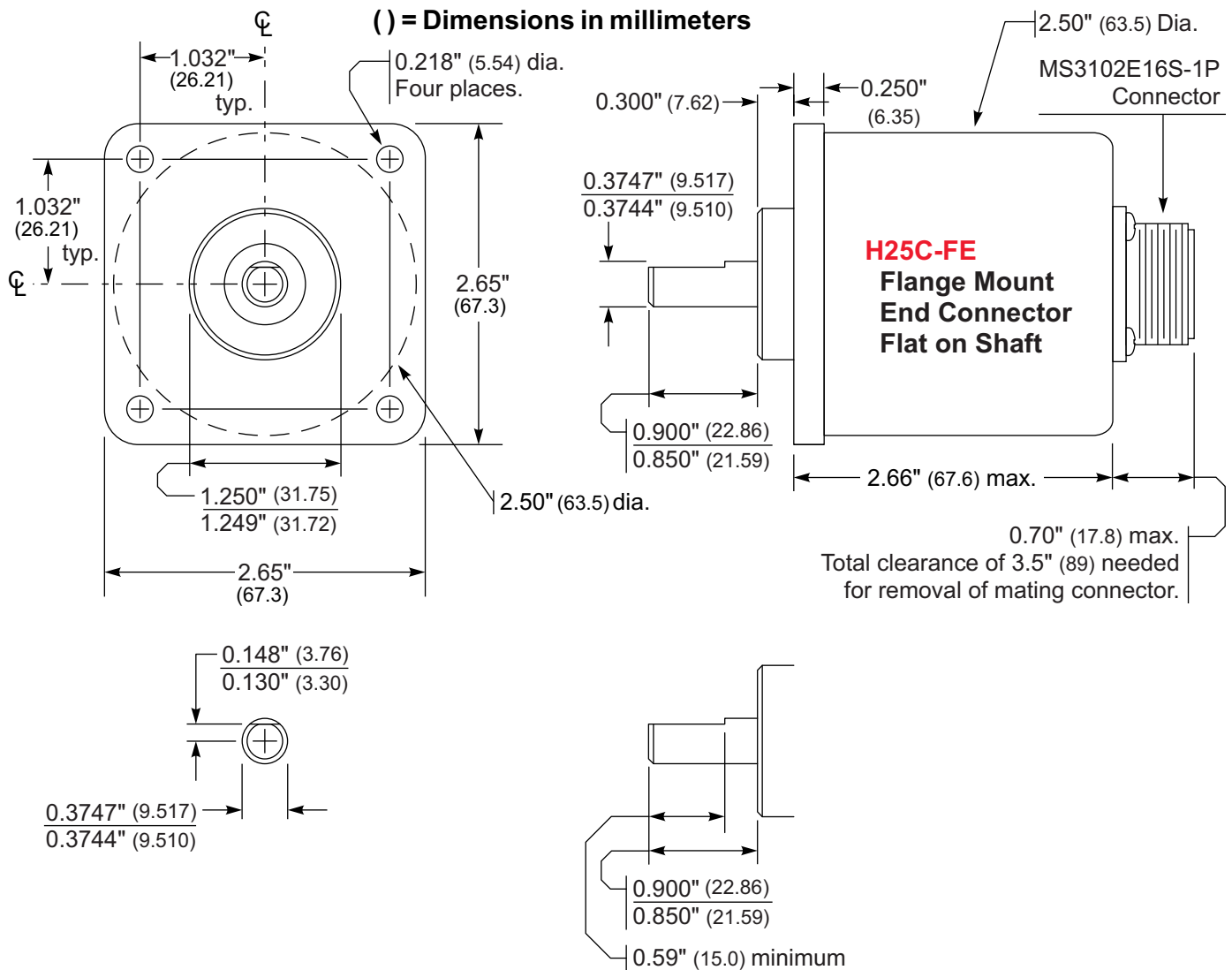
## DESCRIPTION

The H25C-FE is an AMCI size 25, flange mount, single turn transducer with an end connector that is a bolt-in replacement for most flange mount optical encoders. This IP67 rated transducer is made from stainless steel and will withstand operating temperatures up to 125°C (257°F). The corrosion resistant construction of the H25C-FE along with its extreme temperature rating allows it to be used in environments where most sensors will not survive.

The outline drawing below details our standard unit with a 3/8" shaft that has a flat milled into the shaft.

Because the H25C-FE is an absolute sensor, it cannot "lose counts" as an incremental transducer can. If the H25C-FE 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

### ELECTRICAL

Input Voltage: 7.0 VRMS  
Input Freq: 5000 Hz  
Primary: Rotor  
Input Current: 20.0 mARMS Max.  
Output Voltage: 6.65 VRMS Nom.  
Trans. Ratio (TR):  $0.95 \pm 5\%$   
Accuracy:  $\pm 12$  min. (max error)

### MECHANICAL

Shaft Loading: Radial: 40 lbs. max<sup>†</sup>.  
Axial: 20 lbs. max<sup>†</sup>.  
Starting Torque: 2.0 oz.in. @ 25°C  
Moment of Inertia:  $6.00 \times 10^{-4}$  oz-in-sec<sup>2</sup> max.  
Weight: 3.5 lbs.  
† Bearing life rated at  $2 \times 10^9$  revolutions min.  
at maximum shaft load.

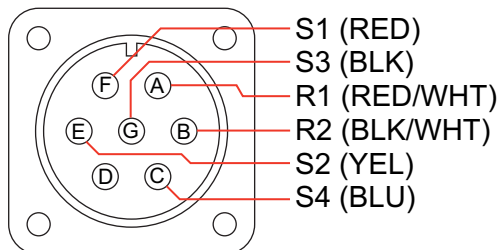
### ENVIRONMENTAL

Shock: 50 g's for 11 mSec  
Vibration: 15 g's to 2000 Hz  
Operating Temp: -40 to 125°C (-40 to 257°F)  
Enclosure: IP 67  
304 Stainless Steel Body  
303 Stainless Steel Shaft  
Viton Shaft Seal

## CONNECTOR PINOUT

The figure below shows the connector pinout to industry standard designations and wire colors.

Military Equivalent #: MS3102E16S-1P



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

## FOR MORE INFORMATION

If you need more information on the H25C-FE use these three resources:

- \* 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 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).