

Model HS52 Explosion Proof Encoder Installation Instructions

BEI Sensors



Description of Equipment:

Explosion Proof* and Flameproof Encoder
Model HS52

Incremental or absolute encoders are optoelectronic sensors with outputs proportional to the speed of rotation or angular position of the shaft.

Marking is as follows:

BEI Sensors
Goleta CA 93117
Part Number
Serial Number
Manufacture Date
28 VDC max.
8.4 V-A max.
-50°C to +80°C Ambient Limits



Ex II 2 G

Ex d IIB T4 Gb
IP66



0539



Class I, Div 1, Group C & D*
Temp code T4*

Special Conditions for safe use:

1. DO NOT remove four screws securing cover to flange plate for any reason.
2. WARNING: Open all circuits prior to connections of this product to power and controller.
3. The installation must comply with NEC Class 2 circuits or with regulations of the country of use.
4. AWG 14-22 (2.08-0.32 mm²) stranded wire stripped to 0.25" (6.3mm) is recommended. Torque screws 3.0 - 3.5 lb-in (0.34 - 0.40 Nm).
5. For ambient temperatures below -10°C and above +60°C, use field wiring suitable for both minimum and maximum temperatures.
6. All cable entry devices shall be certified in type of explosion protection 'd', suitable for conditions of use and correctly installed. Use of an approved conduit may be required. Agency approved cable gland may be used where permitted.
7. Keep terminal block access cover secured with four M5x18 screws and lock washers. Torque to 15 - 20 lb-in (1.69 - 2.26 Nm).
8. The internal case ground connection marked CG shall be used as primary means of equipment grounding. External lug may be used as supplemental connection where permitted using AWG 11 (4.15 mm²) conductor.
9. Contact BEI Sensors for dimensions of flameproof joints (doc. 08240-000).

Testing, Service and Maintenance:

None required. Must be returned to factory for service or repair.

Conformity to these standards:

UL: UL 1203*

ATEX: EN 60079-0:2009 and EN 60079-1:2007

IECEx: IEC 60079-0:2007, Ed. 5 and IEC 60079-1:2007 Ed. 6

* Available on HS52 with CEN certification option only

BEI SENSORS

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