

# BSFA333-IV Series

Inverse Voltage Biaxial Accelerometer, Side Exit 3 Pin Connector, 100 mV/g, with X and Z Axis, ±15%



VIBRATION ANALYSIS HARDWARE



## Product Features

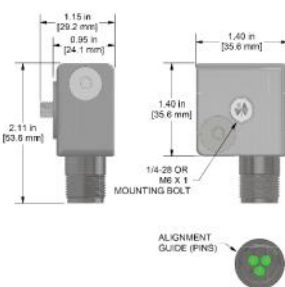
Inverse Voltage Biaxial Accelerometer

- ▶ For Use With Baker Hughes/Commtest Systems
- ▶ Monitors Radially and Axially Simultaneously
- ▶ Compatible with C509 and C519 connectors

### BSFA333-IV

3 Pin Connector

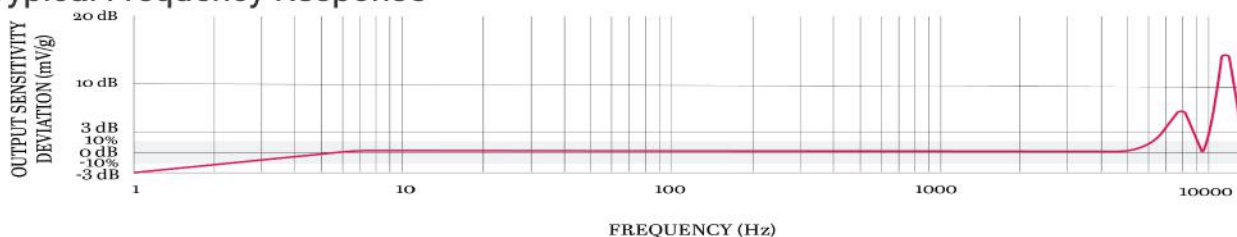
| Connector Pin | Polarity         |
|---------------|------------------|
| A (Axis X)    | (-) Signal/Power |
| B (Axis Z)    | (-) Signal/Power |
| C             | (+) Common/Grid  |



Stock Product

| Specifications              | Standard             | Metric       | Specifications              | Standard            | Metric            |
|-----------------------------|----------------------|--------------|-----------------------------|---------------------|-------------------|
| Part Number                 | BSFA333-IV           | M/BSFA333-IV | <b>Environmental</b>        |                     |                   |
| Sensitivity (±15%)          |                      | 100 mV/g     | Operating Temperature Range | -58 to 250°F        | -50 to 121°C      |
| Frequency Response (±3dB)   | 60-390,000 CPM       | 1,0-6500 Hz  | Electromagnetic Sensitivity | CE                  |                   |
| Dynamic Range               | ± 50 g, peak         |              | Sealing                     | Welded, Hermetic    |                   |
| <b>Electrical</b>           |                      |              | Submersible Depth           | 200 ft.             | 60 m              |
| Settling Time               | <2.5 seconds         |              | <b>Physical</b>             |                     |                   |
| Voltage Source (IEPE)       | -18 to -30 VDC       |              | Sensing Element             | PZT Ceramic         |                   |
| Constant Current Excitation | 2-10 mA              |              | Sensing Structure           | Shear Mode          |                   |
| Spectral Noise @ 10 Hz      | 27 µg/√Hz            |              | Weight                      | 6.9 oz              | 195 grams         |
| Spectral Noise @ 100 Hz     | 6.5 µg/√Hz           |              | Case Material               | 316L Stainless      |                   |
| Spectral Noise @ 1000 Hz    | 2.5 µg/√Hz           |              |                             | Steel               |                   |
| Output Impedance            | <100 ohm             |              | Connector (Non-Integral)    | 3 Pin               |                   |
| Bias Output Voltage         | -10 to -14 VDC       |              | Mounting Torque             | 1 to 2 ft. lbs.     | 1,4 to 2,7 Nm     |
| Case Isolation              | >10 <sup>8</sup> ohm |              | Mounting Hardware Supplied  | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
|                             |                      |              | Calibration Certificate     | CA10                |                   |

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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