

TXFA333-TA Series



Low Cost, Dual Output Triaxial Sensor, Temperature & Acceleration, Side Exit 6 Pin Connector, 500 mV/g, 10 mV/°C, ±15%

VIBRATION ANALYSIS HARDWARE



Product Features

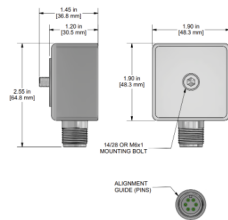
3 Axes of Vibration with Additional Temperature Output in One Sensor

Phase conforms to cartesian coordinate system (right hand rule)

- ▶ Designed for low speed Rotors, Main Bearings, and Gear Box Inputs.
- ▶ Temperature Output 10 mV/°C
- ▶ Compatible with A5A Connector and CB123, CB129 and CB629 cabling

TXFA333-TA

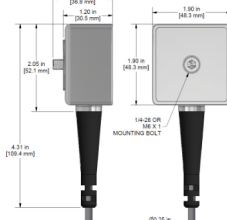
| Connector Pin | Polarity |
|---------------|------------------|
| 1 (Axis Y) | (+) Signal/Power |
| 2 (Axis X) | (+) Signal/Power |
| 3 (Axis Z) | (+) Signal/Power |
| 4 | (-) Common/Grid |
| 5 | (+) Temperature |
| 6 | Not Used |



Stock Product

TXFA433-TA

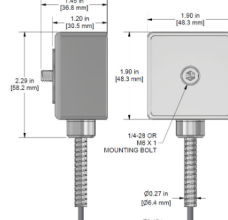
| Connector Pin | Polarity |
|------------------|------------------|
| 1 Red (Axis Y) | (+) Signal/Power |
| 2 Green (Axis X) | (+) Signal/Power |
| 3 White (Axis Z) | (+) Signal/Power |
| 4 Black | (-) Common/Grid |
| 5 Blue | (+) Temperature |
| 6 | Not Used |



Built To Order

TXFA533-TA

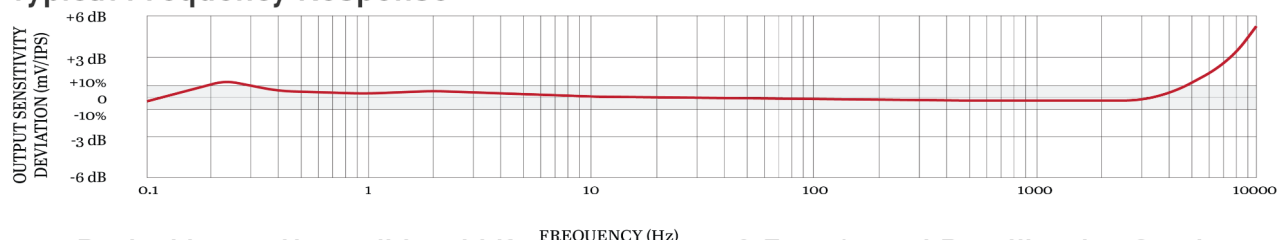
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Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-------------------------------|--|--------------|-----------------------------|---------------------|----------------------|
| Part Number | TXFA333-TA | M/TXFA333-TA | Environmental | | |
| Sensitivity (±15%) | 500 mV/g | | Operating Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 6-420,000 CPM | 0,1-7,000 Hz | Electromagnetic Sensitivity | | CE |
| Frequency Response (±10%) | 18-180,000 CPM | 0,3-3000 Hz | Sealing | | Welded, Hermetic |
| Frequency Response (±5%) | 18-180,000 CPM | 0,3-3000 Hz | Submersible Depth | 200 ft. | 60 m |
| Dynamic Range | ± 10 g, peak *Vsource ≥ 22V, 12Vbias | | SIL Rating | | SIL 2 |
| Temperature Measurement Range | -40 to 250°F | -40 to 121°C | Physical | | |
| Temperature Output | 10 mV/°C | | Sensing Element | | PZT Ceramic |
| Temperature Sensor | 750 mV = 25 °C (±1) | | Sensing Structure | | Shear Mode |
| Electrical | | | Weight | 13.4 oz | 380 grams |
| Settling Time | <2 Seconds | | Case Material | | 316L Stainless Steel |
| Voltage Source (IEPE) | 18-30 VDC | | Connector (Non-Integral) | | 6 Pin |
| Spectral Noise @ 10 Hz | 1.7 µg/√Hz | | Resonant Frequency | 600,000 CPM | 10 kHz |
| Spectral Noise @ 100 Hz | 0.2 µg/√Hz | | Mounting Torque | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm |
| Spectral Noise @ 1000 Hz | 0.12 µg/√Hz | | Mounting Hardware Supplied | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| Output Impedance | <100 ohm | | Calibration Certificate | | CA10 |
| Bias Output Voltage | 10-14 VDC | | | | |
| Case Isolation | >10 ⁸ ohm | | | | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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