

TXFA333-TA Series

Low Cost, Dual Output Triaxial Sensor, Temperature and Acceleration, Side Exit 6 Pin Connector, Follows Cartesian Phase Coordinate System, 500 mV/g, 10 mV/°C, ±15%



Product Features

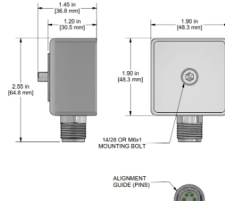
Three Axes of Vibration with Additional Temperature Output in One Sensor

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

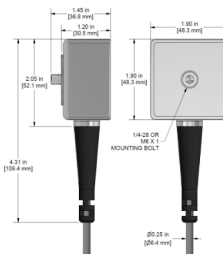
Connector Pin	Polarity
1 (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power
4	(-) Common
5	(+) Temperature
6	Not Used



Stock Product

TXFA433-TA

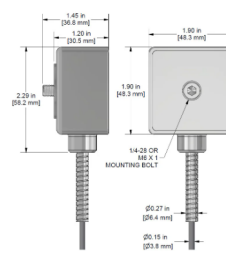
Connector Pin	Polarity
1 Red (Axis Y)	(+) Signal/Power
2 Green (Axis X)	(+) Signal/Power
3 White (Axis Z)	(+) Signal/Power
4 Black	(-) Common/GND
5 Blue	(+) Temperature
6	Not Used



Built To Order

TXFA533-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/GND
5 Blue	(+) Temperature
6	Not Used



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	
Transverse Sensitivity	≤5%		Weight	13.4 oz	380 grams
Electrical			Case Material	316L Stainless Steel	
Settling Time	<2 Seconds		Connector (Non-Integral)	6 Pin	
Voltage Source	18-30 VDC		Resonant Frequency	600,000 CPM	10 kHz
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Calibration Certificate	CA10	
Output Impedance	<100 ohm				
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

