

TXFA331-TA Series

Premium, Dual Output Triaxial Sensor, Temperature & Acceleration, Side Exit 6 Pin Connector, Follows Cartesian Phase Coordinate System, 500 mV/g, 10 mV/°C, ±5%



Product Features

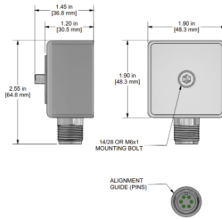
Three Axes of Vibration with Additional Temperature Output in One Sensor

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

TXFA331-TA

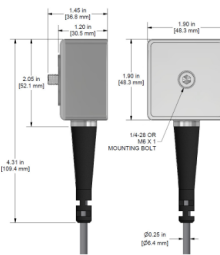
Connector Pin	Polarity
1 (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power
4	(-) Common
5	(+) Temperature
6	Not Used



Stock Product

TXFA431-TA

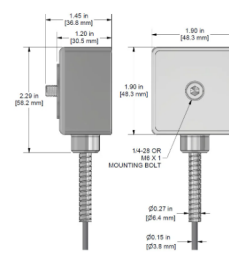
Connector Pin	Polarity
1 Red (Axis Y)	(+) Signal/Power
2 Green (Axis X)	(+) Signal/Power
3 White (Axis Z)	(+) Signal/Power
4 Black	(-) Common/GND
5 Blue	(+) Temperature
6	Not Used



Built To Order

TXFA531-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	TXFA331-TA	M/TXFA331-TA	Environmental		
Sensitivity (±5%)	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	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	18-180,000 CPM	0.3-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 10 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C	Submersible Depth	200 ft.	60 m
Temperature Output	10 mV/°C		SIL Rating	SIL 2	
Temperature Sensor	750 mV = 25 °C (±1)		Physical		
Transverse Sensitivity	≤5%		Sensing Element	PZT Ceramic	
Electrical			Sensing Structure	Shear Mode	
Settling Time	<2 Seconds		Weight	13.4 oz	380 grams
Voltage Source	18-30 VDC		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Connector (Non-Integral)	6 Pin	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Resonant Frequency	600,000 CPM	10 kHz
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

