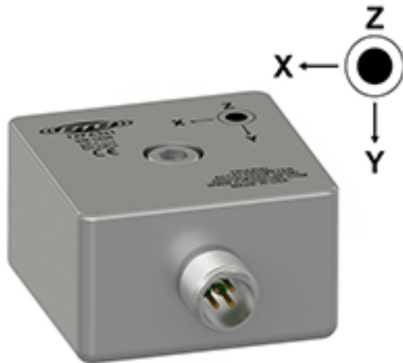


# TXFA331 Series

Premium, Low Frequency Triaxial Accelerometer, Side Exit 4 Pin Connector, 500 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



## Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ Designed for Low-Speed Applications such as Low-Speed Rotors, Main Bearings, and Gear Box Inputs.
- ▶ TXFA331 Mini-MIL Connector Exit Option Compatible CTC J Series Mini-MIL Connectors
- ▶ TXFA231 M12 Connector Exit Option Compatible with CTC M4 Series Connectors

TXFA231 4 Pin M12 Connector		TXFA331 4 Pin Mini-MIL Connector		TXFA431 CB105 Integral Cable		TXFA531 CB218 Armored Integral Cable	
Connector Pin	Polarity	Connector Pin	Polarity	Conductor	Polarity	Conductor	Polarity
1 (Axis Y)	(+) Signal/Power	A (Axis Y)	(+) Signal/Power	Red (Axis Y)	(+) Signal/Power	Red (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power	B (Axis X)	(+) Signal/Power	Green (Axis X)	(+) Signal/Power	Green (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power	C (Axis Z)	(+) Signal/Power	White (Axis Z)	(+) Signal/Power	White (Axis Z)	(+) Signal/Power
4	(-) Common	D	(-) Common	Black	(-) Common/GND	Black	(-) Common/GND

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TXFA331	M/TXFA331	<b>Environmental</b>		
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
<b>Electrical</b>			Submersible Depth	200 ft.	60 m
Settling Time		<2 Seconds	SIL Rating		SIL 2
Voltage Source		18-30 VDC	<b>Physical</b>		
Constant Current Excitation		2-10 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		1.7 µg/√Hz	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		0.2 µg/√Hz	Weight	13.4 oz	380 grams
Spectral Noise @ 1000 Hz		0.12 µg/√Hz	Case Material		316L Stainless Steel
Output Impedance		<100 ohm	Connector (Non-Integral)		TXFA331: 4 Pin Mini-MIL TXFA231: 4 Pin M12
Bias Output Voltage		10-14 VDC	Resonant Frequency	600,000 CPM	10 kHz
Case Isolation		>10 <sup>8</sup> ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

## Typical Frequency Response

