

# TXFA331-VT Series



VIBRATION ANALYSIS HARDWARE

Premium Low Frequency & Dual Output, Piezo Velocity & Temperature Triaxial Sensor, Side Exit 6 Pin Connector, 500 mV/in/sec, 10 mV/°C, ±5%



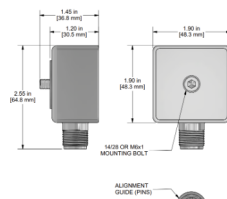
## Product Features

500 mV/in/sec (20 mV/mm/sec) Sensitivity  
Phase Conforms to Cartesian Coordinate System (Right-Hand Rule)

### TXFA331-VT

Side Exit 6 Pin Connector

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

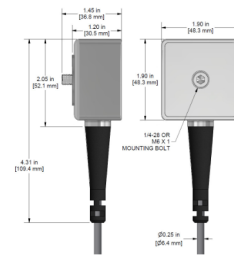


Stock Product

### TXFA431-VT

CB123 Integral Cable

Conductor	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

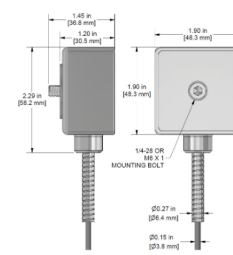


Built To Order

### TXFA531-VT

CB629 Armored Integral Cable

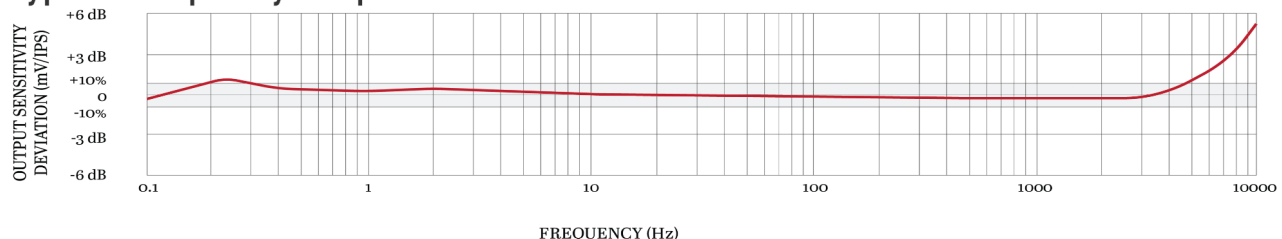
Connector Pin	Polarity
1 Red (Axis Y)	(+) Signal/Power
2 Green (Axis X)	(+) Signal/Power
3 White (Axis Z)	(+) Signal/Power
4 Black	(-) Common/Grid
5 Blue	(+) Temperature
6	Not Used



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TXFA331-VT	M/TXFA331-VT	<u>Environmental</u>		
Sensitivity (±5%)	500 mV/in/sec		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	120 to 180,000 CPM	2.0 Hz to 3,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60 to 270,000 CPM	1.0 Hz to 4,500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	+/-10 in/sec pk *Vsource = 22V, 12Vbias		Sealing	Welded, Hermetic	
<u>Electrical</u>			SIL Rating	SIL 2	
Settling Time	<4 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	13.4 oz	380 grams
Spectral Noise @ 10 Hz	200 µ IPS/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	6 µ IPS/√Hz		Mounting Thread	1/4-28	
Spectral Noise @ 1000 Hz	0.7 µ IPS/√Hz		Connector (Non-Integral)	4 Pin Mini-MIL	
Output Impedance	<100 ohm		Resonant Frequency	240,000 CPM	4,000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 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 & Free Annual Recalibration Service

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