

# TXEA331-HT Series

Premium, High Temperature Triaxial Accelerometer, 100 mV/g, Side Exit 4 Pin Connector, ±5%



VIBRATION ANALYSIS HARDWARE



## Product Features

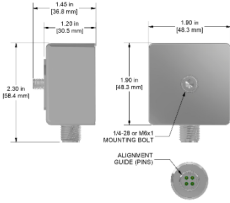
Collect Three Channels of Data Simultaneously for Faster Data Collection

Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ Resistant to Temperatures Up to 325 °F (162 °C)
- ▶ TXEA331-HT Mini-MIL Connector Exit Option Compatible with J4R and VJ4R Connectors
- ▶ TXEA231-HT M12 Connector Exit Option Compatible with M4R Connector

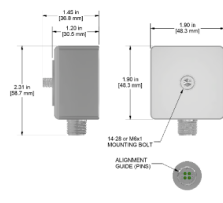
### TXEA231-HT 4 Pin M12 Connector

Connector Pin	Polarity
1 (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power
4	(-) Common



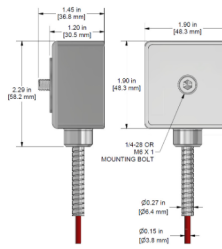
### TXEA331-HT 4 Pin Mini-MIL Connector

Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common/GND



### TXEA531-HT CB218 Armored Integral Cable

Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/GND



**Built To Order**

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TXEA331-HT	M/TXEA331-HT	<b>Environmental</b>		
Sensitivity (±5%)		100 mV/g	Operating Temperature Range	-58 to 325 °F	-50 to 162 °C
Frequency Response (±3dB)	30 to 270,000 CPM	0.5 Hz to 4.5 kHz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	120 to 210,000 CPM	2 Hz to 3 kHz	Electromagnetic Sensitivity		CE
Dynamic Range		±50 in/sec pk. *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
<b>Electrical</b>			SIL Rating		SIL 2
Settling Time		<2.5 Seconds	<b>Physical</b>		
Voltage Source		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		8 µg/√Hz	Weight	13.4 oz	380 grams
Spectral Noise @ 100 Hz		.82 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		.3 µg/√Hz	Connector (Non-Integral)		TXEA331-HT: 4 Pin Mini-MIL TXEA231-HT 4 Pin M12
Output Impedance		<100 ohm	Resonant Frequency		720,000 CPM 12 kHz
Bias Output Voltage		10-14 VDC	Mounting Torque		2 to 5 ft. lbs. 2,7 to 6,8 Nm
Case Isolation		>10 <sup>9</sup> ohm	Mounting Hardware Supplied		1/4-28 Captive Bolt M6x1 Captive Bolt
			Calibration Certificate		CA10

## Typical Frequency Response

