

TXEA331-HT Series

Premium, High Temperature Triaxial Accelerometer, Side Exit 4 Pin Connector, Follows Cartesian Phase Coordinate System, 100 mV/g, $\pm 5\%$



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

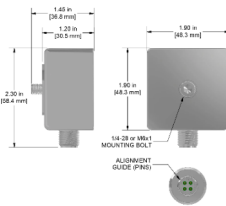
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ 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

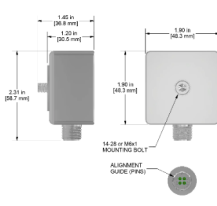


Stock Product

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

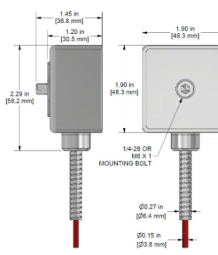


Stock Product

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	<u>Environmental</u>		
Sensitivity ($\pm 5\%$)		100 mV/g	Operating Temperature Range	-58 to 325 °F	-50 to 162 °C
Frequency Response ($\pm 3\text{dB}$)	30 to 270,000 CPM	0.5 Hz to 4.5 kHz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	120 to 210,000 CPM	2 Hz to 3 kHz	Electromagnetic Sensitivity		CE
Dynamic Range		$\pm 50 \text{ in/sec pk.}$ $*V_{\text{source}} \geq 22\text{V, } 12\text{V bias}$	Sealing		Welded, Hermetic
Transverse Sensitivity		$\leq 5\%$	SIL Rating		SIL 2
<u>Electrical</u>			<u>Physical</u>		
Settling Time		<2.5 Seconds	Sensing Element		PZT Ceramic
Voltage Source		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	13.4 oz	380 grams
Spectral Noise @ 10 Hz		8 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		.82 $\mu\text{g}/\sqrt{\text{Hz}}$	Connector (Non-Integral)		TXEA331-HT: 4 Pin Mini-MIL TXEA231-HT 4 Pin M12
Spectral Noise @ 1000 Hz		.3 $\mu\text{g}/\sqrt{\text{Hz}}$	Resonant Frequency	720,000 CPM	12 kHz
Output Impedance		<100 ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		>10 ⁸ ohm	Calibration Certificate		CA10

Typical Frequency Response

