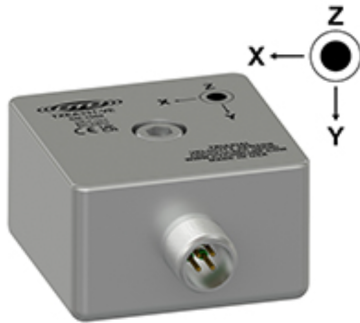


# TXEA331-VE Series

Premium Piezo Velocity Triaxial Sensor, Side Exit 4 Pin Connector,  
100 mV/in/sec, ±5%



VIBRATION ANALYSIS HARDWARE



## Product Features

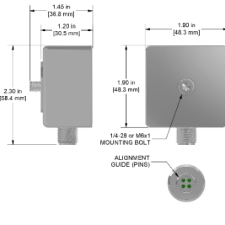
Collect 3 Channels of Data Simultaneously for Faster Data Collection

Follows Cartesian Coordinate Phase Configuration (Right Hand Rule)

- ▶ Integrates to Velocity in the Sensor
- ▶ Mini-MIL Connector Exit Option Compatible  
CTC J Series Mini-MIL Connectors
- ▶ M12 Connector Exit Option Compatible with  
CTC M4 Series Connectors

### TXEA231-VE 4 Pin M12 Connector

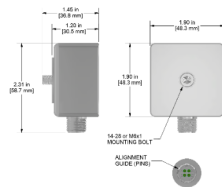
Connector Pin	Polarity
1 (Axis Y)	(+) Signal/Power
2 (Axis X)	(+) Signal/Power
3 (Axis Z)	(+) Signal/Power
4	(-) Common



Stock Product

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

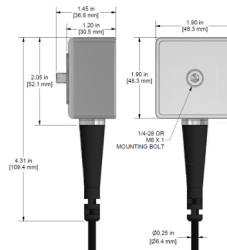
Connector Pin	Polarity
A (Axis Y)	(+) Signal/Power
B (Axis X)	(+) Signal/Power
C (Axis Z)	(+) Signal/Power
D	(-) Common/Grnd



Stock Product

### TXEA431-VE CB105 Integral Cable

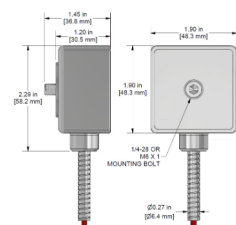
Conductor	Polarity
Red (Axis Y)	(+) Signal/Power
Green (Axis X)	(+) Signal/Power
White (Axis Z)	(+) Signal/Power
Black	(-) Common/Grnd



Built To Order

### TXEA531-VE CB218 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TXEA331-VE	M/TXEA331-VE	<b>Environmental</b>		
Sensitivity (±5%)	100	mV/in/sec	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60 to 270,000 CPM	1Hz to 4.5kHz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120 to 240,000 CPM	2Hz to 4kHz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 in/sec. pk *V <sub>source</sub> ≥ 22V, 12V <sub>bias</sub>		Sealing	Welded, Hermetic	
<b>Electrical</b>			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	25 μIPS/ √Hz		Case Material	316L Stainless Steel	
			Connector (Non-Integral)	4 Pin Mini-ML or 4 Pin M12	