

# TXEA333-VE Series



Low Cost, Piezo Velocity Triaxial Sensor, Side Exit 4 Pin Mini-MIL Connector, 100 mV/in/sec, ±15%

VIBRATION ANALYSIS HARDWARE



## Product Features

100 mV/in/sec (4 mV/mm/sec) Sensitivity

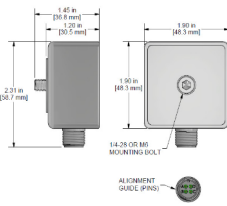
Phase conforms to cartesian coordinate system (right hand rule)

- ▶ Integrates to Velocity in the Sensor
- ▶ 4 Pin Mini-MIL Connection or Integral Cable  
Note: Integral Cable Options are only for Permanent Monitoring Applications
- ▶ Must use J4A, J4C, J4N, J4R or VJ4R connectors & CB105, CB117, CB119 or CB218 cables

### TXEA333-VE

4 Pin Connector

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

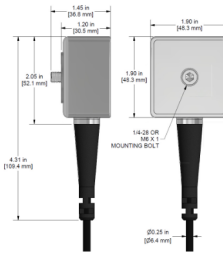


Stock Product

### TXEA433-VE

CB105 Integral Cable

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

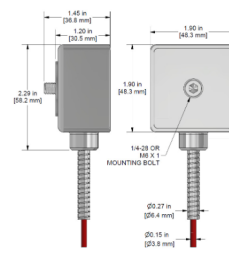


Built To Order

### TXEA533-VE

CB218 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TXEA333-VE	TXEA343-VE	<b>Environmental</b>		
Sensitivity (±15%)		100 mV/g	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	Sealing		Welded, Hermetic
<b>Electrical</b>			SIL Rating		SIL 2
Settling Time		<4 seconds	<b>Physical</b>		
Voltage Source (IEPE)		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		25 µIPS/√Hz	Weight	13.4 oz	380 grams
Spectral Noise @ 100 Hz		2 µIPS/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		0.5 µIPS/√Hz	Mounting		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		4 Pin Mni-ML
Bias Output Voltage		10-14 VDC	Resonant Frequency	720,000 CPM	12 kHz
Case Isolation		>10 <sup>8</sup> ohm	Mounting Torque		2 to 5 ft. lbs.
			Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

## Typical Frequency Response

