

TXEA331-VT Series

Premium, Dual Output Piezo Velocity & Temperature Triaxial Sensor, Side Exit 6 Pin Connector, Follows Cartesian Phase Coordinate System, 100 mV/in/sec, 10 mV/°C, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Three Axes of Vibration with Additional Temperature Output in One Sensor

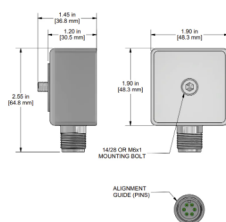
Phase Conforms to Cartesian Coordinate System (Right-Hand Rule)

► Must use with A5A Connector, and CB123, CB126 or CB629 Cabling

TXEA331-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
5	(+) Temperature
6	Not Used

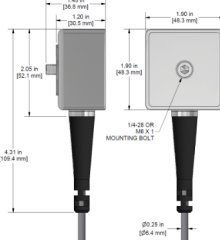


Stock Product

TXEA431-VT

CB123 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/GND
5 Blue	(+) Temperature
6	Not Used

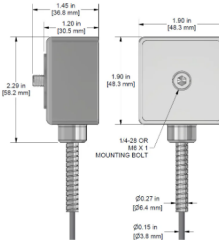


Built To Order

TXEA531-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/GND
5 Blue	(+) Temperature
6	Not Used



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TXEA331-VT	M/TXEA331-VT	Environmental		
Sensitivity (±5%)	100 mV/in/sec		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	90 to 240,000 CPM	1.5 to 4,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120 to 210,000 CPM	2.0 to 3,500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 50 in/sec. pk *Vsource ≥ 22V, 12Vbias		SIL Rating	SIL 2	
Transverse Sensitivity	≤5%		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<4 seconds		Sensing Structure	Shear Mode	
Voltage Source	18-30 VDC		Weight	12.3 oz	349 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	25 µIPS/√Hz		Connector (Non-Integral)	6 Pin	
Spectral Noise @ 100 Hz	2 µIPS/√Hz		Resonant Frequency	600,000 CPM	10,000 Hz
Spectral Noise @ 1000 Hz	0.5 µIPS/√Hz		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Bias Output Voltage	10-14 VDC		Calibration Certificate	CA10	
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

