

TXEA331-TA Series

Premium, Dual Output Triaxial Sensor, Temperature and Acceleration, Side Exit 6 Pin Connector, Follows Cartesian Phase Coordinate System, 100 mV/g, 10 mV/°C, ±5%



Product Features

Three Axes of Vibration with Additional Temperature Output in One Sensor

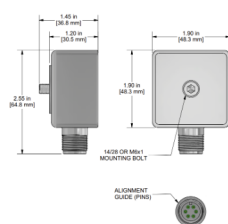
Temperature Output 10 mV/°C

- ▶ Phase Conforms to Cartesian Coordinate System (Right-Hand Rule)
- ▶ Must Use with A5A Connector, and CB123, CB126 or CB629 Cabling

TXEA331-TA

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 (N/A)	

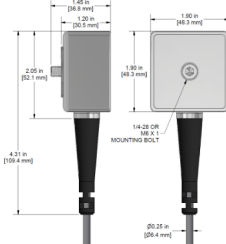


Stock Product

TXEA431-TA

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

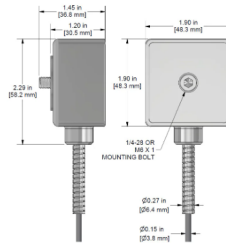


Built To Order

TXEA531-TA

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-TA	M/TXEA331-TA	<u>Environmental</u>		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-420,000 CPM	0.5-7,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-210,000 CPM	2.0-3,500 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	IP68	
Temperature Measurement Range	-40 to 250°F	-40 to 121°C	Submersible Depth	200 ft.	60 m
Temperature Output	10 mV/°C		<u>Physical</u>		
Temperature Sensor	750 mV = 25 °C (±1)		Sensing Element	PZT Ceramic	
Transverse Sensitivity	≤5%		Sensing Structure	Shear Mode	
<u>Electrical</u>			Weight	12.2 oz	347 grams
Settling Time	<2.5 seconds		Case Material	316L Stainless Steel	
Voltage Source	18-30 VDC		Connector (Non-Integral)	6 Pin	
Constant Current Excitation	2-10 mA		Resonant Frequency	600,000 CPM	10,000 Hz
Spectral Noise @ 10 Hz	14 µg/√Hz		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Spectral Noise @ 1000 Hz	2 µg/√Hz		Calibration Certificate	CA10	
Output Impedance	<100 ohm				
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

