

TXGA331 Series

Low Frequency, Triaxial Accelerometer, Side Exit 4 Pin Connector, Follows Cartesian Phase Coordinate System, 1,000 mV/g, $\pm 5\%$



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

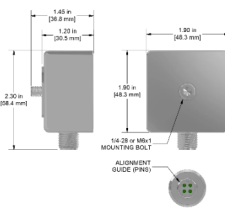
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- Designed for Low-Speed Applications such as Low-Speed Rotors, Main Bearings, and Gear Box Inputs.
- Mini-MIL Connector Exit Option Compatible CTC J Series Mini-MIL Connectors
- M12 Connector Exit Option Compatible with CTC M4 Series Connectors

TXGA231

4 Pin M12 Connector

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

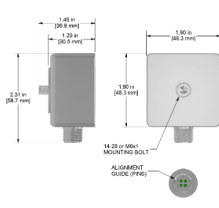


Stock Product

TXGA331

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

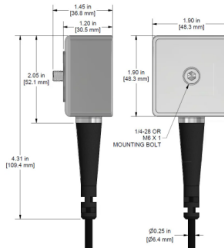


Stock Product

TXGA431

CB105 Integral Cable

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

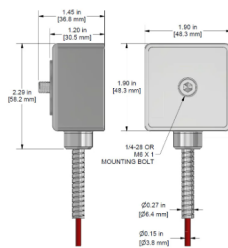


Built To Order

TXGA531

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	TXGA331	M/TXGA331	Environmental		
Sensitivity ($\pm 5\%$)		1,000 mV/g	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response ($\pm 3\text{dB}$)	6-420,000 CPM	0.1-7,000 Hz	Maximum Shock Protection	5000 g, peak	
Frequency Response ($\pm 10\%$)	18-180,000 CPM	0.3-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		± 7 g, peak	Sealing	Welded, Hermetic	
Transverse Sensitivity		$\leq 5\%$	Submersible Depth	200 ft.	60 m
Electrical			SIL Rating	SIL 2	
Settling Time	< 2 seconds		Physical		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	1.3 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	13.4 oz	380 grams
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.1 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	4 Pin Mini-MIL or 4 Pin M12	
Output Impedance	< 100 ohm		Resonant Frequency	600,000 CPM	10,000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	> 10^8 ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response

