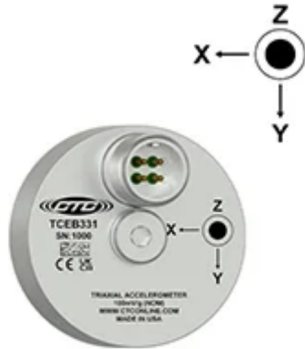


TCEB331 Series

Premium, Miniature Industrial Circular Triaxial Accelerometer, Top Exit 4 Pin Mini-MIL Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

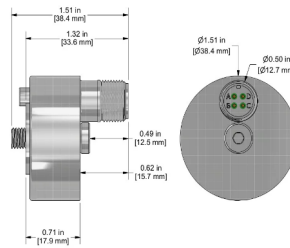
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ High-Performance Triaxial Sensor with High End Frequency Response of 12 kHz (+3dB)
- ▶ Low-Profile, Top-Exit Case is Ideally Suited for Route-Based Measurements
- ▶ Compatible with CTC J Series Mini-MIL Connectors

TCEB331

4 Pin Connector

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



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TCEB331	M/TCEB331	<u>Environmental</u>		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-65 to 250 °F	-54 to 121 °C
Frequency Response (±3dB)	120 to 720,000 CPM	2 Hz to 12 kHz	Maximum Shock Protection	10,000 g, peak	
Frequency Response (±10%)	240 to 600,000 CPM	4 Hz to 10 kHz	Electromagnetic Sensitivity	CE	
Dynamic Range	50 g *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
<u>Electrical</u>			SIL Rating	SIL 2	
Settling Time	<2.5 Seconds		<u>Physical</u>		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	30 µg/√Hz		Weight	4.8 oz	136 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	4 Pin Mini-MIL	
Output Impedance	<100 ohm		Resonant Frequency	1,020,000 CPM (± 12,000 CPM)	17 kHz (±2kHz)
Bias Output Voltage	10-14 VDC		Mounting Torque	1 to 2 ft. lbs.	1.4 to 2.7 Nm
Case Isolation	>10 ⁸ ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response

