

# TXGA333 Series

Low Frequency Triaxial Accelerometer, Side Exit 4 Pin Connector, 1,000 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



## Product Features

Collect Three Channels of Data Simultaneously for Faster Data Collection

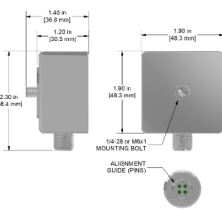
Follows Cartesian Coordinate Phase Configuration (Right-Hand Rule)

- ▶ 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

### TXGA233

4 Pin M12 Connector

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

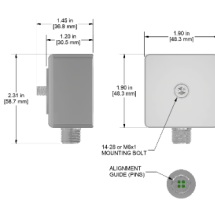


Stock Product

### TXGA333

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/Grid  |

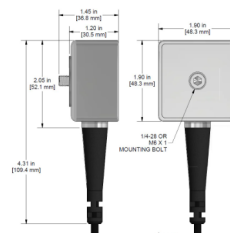


Stock Product

### TXGA433

CB105 Integral Cable

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

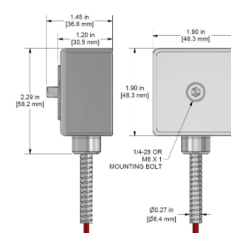


Built To Order

### TXGA533

CB218 Armored Integral Cable

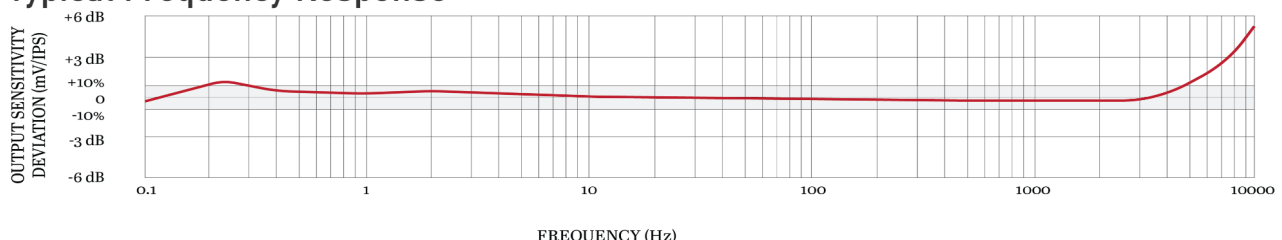
| Conductor      | Polarity         |
|----------------|------------------|
| Red (Axis Y)   | (+) Signal/Power |
| Green (Axis X) | (+) Signal/Power |
| White (Axis Z) | (+) Signal/Power |
| Black          | (-) Common/Grid  |



Built To Order

| Specifications              | Standard                               | Metric       | Specifications              | Standard                    | Metric            |
|-----------------------------|--|--------------|-----------------------------|-----------------------------|-------------------|
| Part Number                 | TXGA333                                | M/TXGA333    | <b>Environmental</b>        |                             |                   |
| Sensitivity (±15%)          | 1,000 mV/g                             |              | Operating Temperature Range | -58 to 250 °F               | -50 to 121 °C     |
| Frequency Response (±3dB)   | 6-420,000 CPM                          | 0,1-7,000 Hz | Maximum Shock Protection    | 5000 g, peak                |                   |
| Frequency Response (±10%)   | 18-180,000 CPM                         | 0,3-3000 Hz  | Electromagnetic Sensitivity | CE                          |                   |
| Dynamic Range               | ± 7 g, peak<br>*Vsource ≥ 22V, 12Vbias |              | Sealing                     | Welded, Hermetic            |                   |
| <b>Electrical</b>           |  |              | Submersible Depth           | 200 ft.                     | 60 m              |
| Settling Time               | < 2 seconds                            |              | SIL Rating                  | SIL 2                       |                   |
| Voltage Source (IEPE)       | 18-30 VDC                              |              | <b>Physical</b>             |                             |                   |
| Constant Current Excitation | 2-10 mA                                |              | Sensing Element             | PZT Ceramic                 |                   |
| Spectral Noise @ 10 Hz      | 1.3 µg/√Hz                             |              | Sensing Structure           | Shear Mode                  |                   |
| Spectral Noise @ 100 Hz     | 0.2 µg/√Hz                             |              | Weight                      | 13.4 oz                     | 380 grams         |
| Spectral Noise @ 1000 Hz    | 0.1 µg/√Hz                             |              | Case Material               | 316L Stainless Steel        |                   |
| Output Impedance            | < 100 ohm                              |              | Connector (Non-Integral)    | 4 Pin Mini-MIL or 4 Pin M12 |                   |
| Bias Output Voltage         | 10-14 VDC                              |              | Resonant Frequency          | 600,000 CPM                 | 10,000 Hz         |
| Case Isolation              | > 10 <sup>8</sup> ohm                  |              | Mounting Torque             | 2 to 5 ft. lbs.             | 2,7 to 6,8 Nm     |
|                             |  |              | Mounting Hardware Supplied  | 1/4-28 Captive Bolt         | M6x1 Captive Bolt |
|                             |  |              | Calibration Certificate     | CA10                        |                   |

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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