

AC931 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Class I, Division 2 / Zone 2 Accelerometer, Top Exit 2 Pin Connector, 10 mV/g, ±10%



Product Features

Class I, Division 2 / Zone 2 Rating

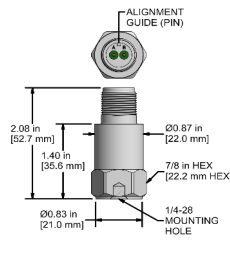
Must Use "Class I, Division 2" CB190 or CB296 Cable and Q2A or Q2N Connectors

- ▶ 10 mV/g Sensitivity ± 10%
- ▶ 1,2 - 15000 Hz (72 - 900,000 CPM) Frequency Response
- ▶ ±500 g, Dynamic Range

AC931-1A

2 Pin Connector

| Connector Pin | Polarity |
|---------------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |

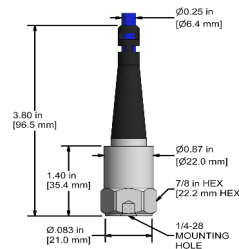


Stock Product

AC931-2C

CB190 Integral Cable

| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |

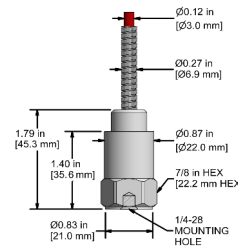


Built To Order

AC931-3C

CB296 Armored Integral Cable

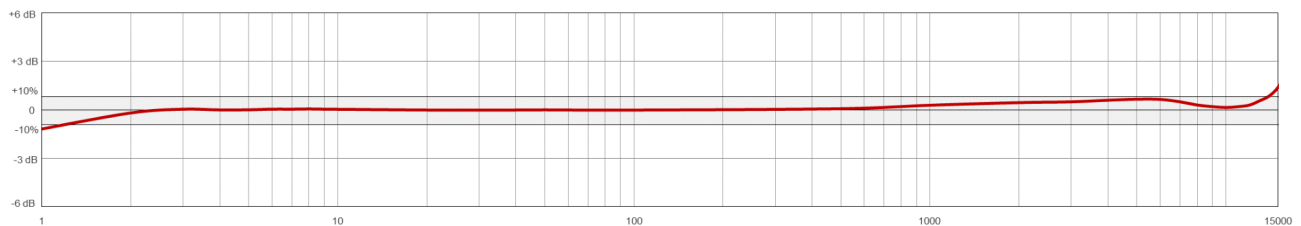
| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|--------------|-----------------------------|----------------------|-------------------|
| Part Number | AC931 | M/AC931 | Environmental | | |
| Sensitivity (±10%) | 10 mV/g | | Temperature Range | -40 to 250°F | -40 to 121°C |
| Frequency Response (±3dB) | 60-900,000 CPM | 1,0-15000 Hz | Maximum Shock Protection | 5,000 g, peak | |
| Frequency Response (±10%) | 120-360,000 CPM | 2,0-6000 Hz | Electromagnetic Sensitivity | CE | |
| Dynamic Range | ± 500 g, peak | | Sealing | Welded, Hermetic | |
| Electrical | | | Physical | | |
| Settling Time | <2 Seconds | | Sensing Element | PZT Ceramic | |
| Voltage Source (IEPE) | 18-30 VDC | | Sensing Structure | Shear Mode | |
| Constant Current Excitation | 2-10 mA | | Weight | 3.2 oz | 91 grams |
| Spectral Noise @ 10 Hz | 100 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 100 Hz | 90 µg/√Hz | | Mounting | 1/4-28 | |
| Spectral Noise @ 1000 Hz | 85 µg/√Hz | | Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| Output Impedance | <100 ohm | | Resonant Frequency | 1,380,000 CPM | 23000 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 | 1/4-28 Stud | M6x1 Adapter Stud |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

www.ctconline.com | sales@ctconline.com | 585-924-5900