

AC292 Series

Compact, High Performance Accelerometer, Top Exit
Connector/Cable, 100 mV/g



VIBRATION ANALYSIS HARDWARE



Product Features

Superior RF Immunity in a Compact 100 mV/g Sensor

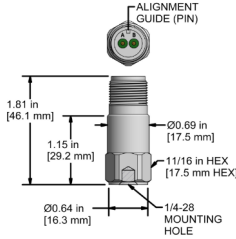
Improved Linearity

- ▶ ± 80 g, Dynamic Range
- ▶ 0.3 - 15,000 Hz (18-900,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connector on Non-Integral Option

AC292-1D

2 Pin Connector

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

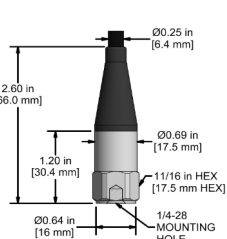


Stock Product

AC292-2D

CB103 Integral Cable

| Conductor | Polarity |
|-----------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |
| Shield | Cable Drain Wire |

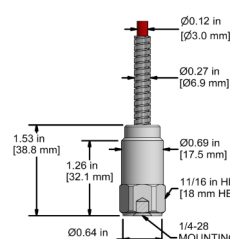


Built To Order

AC292-3D

CB206 Armored Integral Cable

| Conductor | Polarity |
|-----------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |
| Shield | Cable Drain Wire |

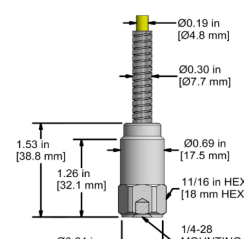


Built To Order

AC292-6D

CB611 Heavy Duty Armored Integral Cable

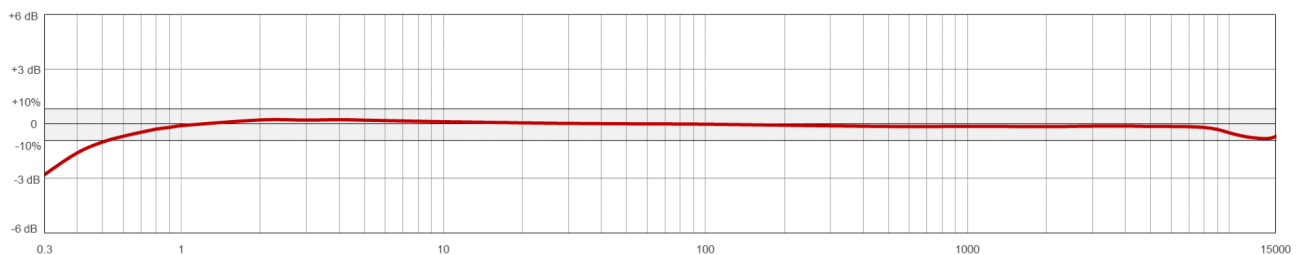
| Conductor | Polarity |
|-----------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|-----------------|----------------------|-----------------------------|-----------------|----------------------|
| Part Number | AC292 | M/AC292 | Environmental | | |
| Sensitivity (±5%) | | 100 mV/g | Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 18-900,000 CPM | 0.3-15000 Hz | Maximum Shock Protection | | 5,000 g, peak |
| Frequency Response (±10%) | 60-600,000 CPM | 1.0-10000 Hz | Electromagnetic Sensitivity | | CE |
| Frequency Response (±5%) | 600-300,000 CPM | 10-5000 Hz | Sealing | | Welded, Hermetic |
| Dynamic Range | | ± 80 g, peak | Submersible Depth | 200 ft. | 60 m |
| 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 | 1.8 oz | 51 grams |
| Spectral Noise @ 10 Hz | | 8 µg/√Hz | Case Material | | 316L Stainless Steel |
| Spectral Noise @ 100 Hz | | 4 µg/√Hz | Mounting | | 1/4-28 |
| Spectral Noise @ 1000 Hz | | 2 µg/√Hz | Connector (Non-Integral) | | 2 Pin MIL-C-5015 |
| Output Impedance | | <100 ohm | Resonant Frequency | 1,560,000 CPM | 26000 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