

AC192 Series

Compact Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

High Performance in an Affordable, Compact Sensor

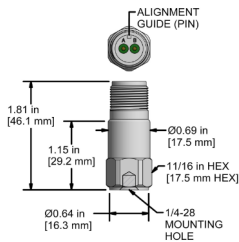
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 10%
± 80g Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable.
Note: Integral Cable Options are Only for Permanent Monitoring Applications
- ▶ -6N Integral Cable Option Features Food-Safe, FDA-Compliant 21 CFR 177.1330 Polyolefin Heat Shrink

AC192-1D

2 Pin Connector

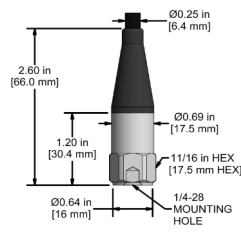
| Connector Pin | Polarity |
|---------------|------------------|
| A | (+) Signal/Power |
| B | (-) Common |



AC192-2D

CB103 Integral Cable

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

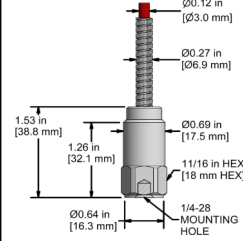


Built To Order

AC192-3D

CB206 Armored Integral Cable

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

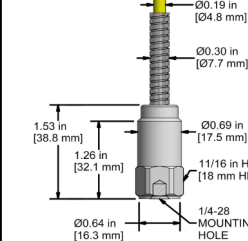


Built To Order

AC192-6D

CB611 Heavy Duty Armored Integral Cable

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

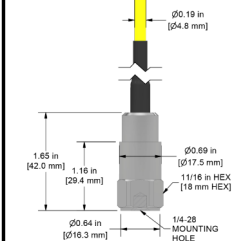


Built To Order

AC192-6N

CB111 Integral Cable

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



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|---|----------------|-----------------------------|--------------------------|------------------------------|
| Part Number | AC192 | M/ or M8/AC192 | Environmental | | |
| Sensitivity (±10%) | 100 mV/g | | Operating Temperature Range | -58 to 250 °F | -50 to 121 °C |
| Frequency Response (±3dB) | 24-780,000 CPM | 0,4-13000 Hz | Maximum Shock Protection | 5000 g, Peak | |
| Dynamic Range | ± 80 g, peak *Vsource ≥ 22V, 12Vbias | | Electromagnetic Sensitivity | CE | |
| Electrical | | | Sealing | Welded, Hermetic | |
| Settling Time | <2 Seconds | | Submersible Depth | 200 ft. | 60 m |
| Voltage Source | 18-30 VDC | | SIL Rating | SIL 2 | |
| Constant Current Excitation | 2-10 mA | | Physical | | |
| Spectral Noise @ 10 Hz | 8 µg/√Hz | | Sensing Element | PZT Ceramic | |
| Spectral Noise @ 100 Hz | 4 µg/√Hz | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 1000 Hz | 2 µg/√Hz | | Weight | 1.8 oz | 51 grams |
| Output Impedance | <100 ohm | | Case Material | 316L Stainless Steel | |
| Bias Output Voltage | 10-14 VDC | | Mounting Thread | 1/4-28 Blind Tapped Hole | |
| Case Isolation | >10 ⁹ ohm | | Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| | | | Resonant Frequency | 1,560,000 CPM | 26000 Hz |
| | | | Mounting Torque | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm |
| | | | Mounting Hardware Supplied | 1/4-28 Stud | M6x1 or M8x1.25 Adapter Stud |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response

