AC203 Series
Low & High Frequency Accelerometer, Top Exit Connector, 100 mVg

PRODUCT FEATURES

**Designed for Low Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also Be Used for High Frequency Detection.**

May be used with any application that requires low and high frequency measurements.

**SPECIFICATIONS**

**Standard**

**AC203-1D**
- Connector Pin
- A: (+) Signal / Power
- B: (-) Common
- Conductor
- Polarity
- Red: (+) Signal / Power
- Black: (-) Common
- Shield: Cable Drain Wire

**AC203-2D**
- Integral Cable
- Conductor
- Polarity
- Red: (+) Signal / Power
- Black: (-) Common
- Shield: Cable Drain Wire

**AC203-3D**
- Armored Integral Cable
- Conductor
- Polarity
- Red: (+) Signal / Power
- Black: (-) Common
- Shield: Cable Drain Wire

**STOCK PRODUCT BUILD TO ORDER**

**TYPICAL FREQUENCY RESPONSE**

**Specifications**

**Part Number**
- AC203

**Environmental**
- Temperature Range
  - Standard: -58°F to 250°F
  - Metric: -50°C to 121°C
- Maximum Shock Protection
  - 5 kg, peak
- Electromagnetic Sensitivity
  - CE
- Sealing
  - Welded, Hermetic (IP68)

**Physical**
- Sensing Element
  - PZT Ceramic
- Sensing Structure
  - Shear Mode
- Weight
  - Standard: 3.25 ounces
  - Metric: 92 grams
- Case Material
  - 316L Stainless Steel

**Electrical**
- Setting Time
  - < 2 seconds
- Voltage Source (IEPE)
  - 18 Vdc to 30 Vdc
- Constant Current Excitation
  - 2 mA to 10 mA
- Spectral Noise @ 10 Hz
  - 1.3 µV / VHz
- Spectral Noise @ 100 Hz
  - 0.2 µV / VHz
- Spectral Noise @ 1 kHz
  - 0.1 µV / VHz
- Output Impedance
  - < 100 ohm
- Bias Output Voltage
  - 10 Vdc to 14 Vdc
- Case Isolation
  - > 10^9 ohm

**Calibration Certificate**
- CA10

**Vibration**
- Sensitivity (± 10%)
  - 100 mV/g
- Frequency Response (± 3 dB)
  - CPM to 600 CPM
  - 0.1 Hz to 10 kHz
- Frequency Response (± 10%)
  - CPM to 480 CPM
  - 0.6 Hz to 8 kHz
- Dynamic Range
  - ± 80 g, peak

**Resonant Frequency**
- 1020 kCPM

**Mounting Torque**
- 2 ft·lb to 5 ft·lb

**Mounting Hardware**
- 1/4-28 Stud

**Output Impedance**
- < 100 ohm

**Bias Output Voltage**
- 10 Vdc to 14 Vdc

**Case Isolation**
- > 10^9 ohm

**UNCONDITIONAL LIFETIME WARRANTY | TOLL-FREE: 800.999.5290 | www.CTConline.com**