

# AC184 Series

Multipurpose Accelerometer, Side Exit 2 Pin Connector, M8x1.25  
Captive Bolt, 100 mV/g, ±10%

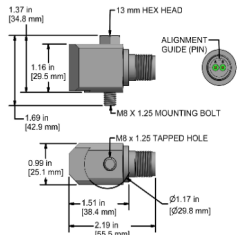


## Product Features

- Perfect for M8 Mounting Applications
- High Performance in a Low Cost Sensor
- ▶ 100 mV/g Sensitivity, ± 10%
  - ▶ ± 80 g, peak Dynamic Range
  - ▶ Standard 2 Pin MIL Connection or Integral Cable

### AC184-1A 2 Pin Connector

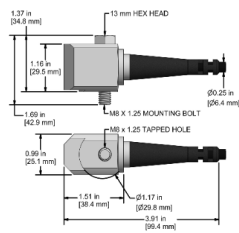
| Connector | Polarity         |
|-----------|------------------|
| Pin       |                  |
| A         | (+) Signal/Power |
| B         | (-) Common       |



Stock Product

### AC184-2C CB103 Integral Cable

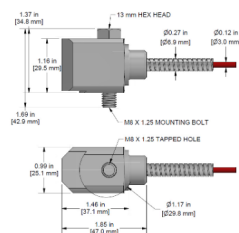
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

### AC184-3C CB206 Armored Integral Cable

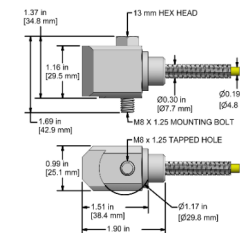
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

### AC184-6C CB611 Heavy Duty Armored Integral Cable

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



Built To Order

| Specifications              | Standard                                | Metric       | Specifications              | Standard             | Metric       |
|-----------------------------|-----------------------------------------|--------------|-----------------------------|----------------------|--------------|
| Sensitivity (±10%)          | 100 mV/g                                |              | <u>Environmental</u>        |                      |              |
| Frequency Response (±3dB)   | 30-600,000 CPM                          | 0,5-10000 Hz | Operating Temperature Range | -58 to 250°F         | -50 to 121°C |
| Frequency Response (±10%)   | 120-300,000 CPM                         | 2,0-5000 Hz  | Maximum Shock Protection    | 5,000 g, peak        |              |
| Dynamic Range               | ± 80 g, peak<br>*Vsource ≥ 22V, 12Vbias |              | Electromagnetic Sensitivity | CE                   |              |
| <u>Electrical</u>           |                                         |              | Sealing                     | Welded, Hermetic     |              |
| Settling Time               | <2.5 seconds                            |              | Submersible Depth           | 200 ft.              | 60 m         |
| Voltage Source (IEPE)       | 18-30 VDC                               |              | SIL Rating                  | SIL 2                |              |
| Constant Current Excitation | 2-10 mA                                 |              | <u>Physical</u>             |                      |              |
| Spectral Noise @ 10 Hz      | 14 µg/√Hz                               |              | Sensing Element             | PZT Ceramic          |              |
| Spectral Noise @ 100 Hz     | 2.3 µg/√Hz                              |              | Sensing Structure           | Shear Mode           |              |
| Spectral Noise @ 1000 Hz    | 2 µg/√Hz                                |              | Weight                      | 6 oz                 | 170 grams    |
| Output Impedance            | <100 ohm                                |              | Case Material               | 316L Stainless Steel |              |
| Bias Output Voltage         | 10-14 VDC                               |              | Mounting Thread             | M8x1.25              |              |
| Case Isolation              | >10 <sup>8</sup> ohm                    |              | Connector (Non-Integral)    | 2 Pin MIL-C-5015     |              |
|                             |                                         |              | Resonant Frequency          | 1,200,000 CPM        | 20000 Hz     |
|                             |                                         |              | Mounting Torque             | 2 to 5 ft.           | 2,7 to       |