AC194 Series Compact, Multi-Purpose Accelerometer, Side Exit Connector/Cable, 100 mV/g



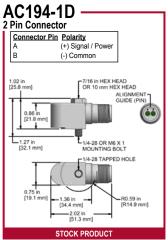
REGULATORY APPROVALS

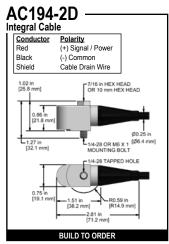


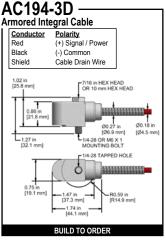
PRODUCT FEATURES -

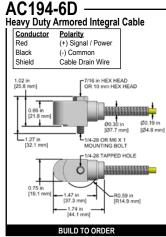
High Performance in an Affordable, Side Exit Compact Sensor

Very Low Noise & Superior RF Immunity









| Specifications | Standard | Metric | |
|-----------------------------|--------------------|-----------------------|--|
| Part Number | AC194 | M/AC194 | |
| Vibration | | | |
| Sensitivity (± 10 %) | 100 r | 100 mV/g | |
| Frequency Response (± 3 dB) | 30 CPM to 600 kCPM | 0.5 Hz to 10 kHz | |
| Dynamic Range | ± 80 g | ± 80 g, peak | |
| Electrical | | | |
| Settling Time | < 2 se | < 2 seconds | |
| Voltage Source (IEPE) | 18 Vdc to | 18 Vdc to 30 Vdc | |
| Constant Current Excitation | 2 mA to | 2 mA to 10 mA | |
| Spectral Noise @ 10 Hz | 8 µg/ | 8 μg/√Hz | |
| Spectral Noise @ 100 Hz | 4 μg | 4 μg/√Hz | |
| Spectral Noise @ 1 kHz | 2 μg | 2 μg/√Hz | |
| Output Impedance | < 100 | < 100 ohm | |
| Bias Output Voltage | 10 Vdc to | 10 Vdc to 14 Vdc | |
| Case Isolation | > 108 | > 10 ⁸ ohm | |

| Specifications | Standard | Metric |
|------------------------------------|-------------------------|--------------------|
| Environmental | | |
| Temperature Range | -58°F to 250°F | -50°C to 121°C |
| Maximum Shock Protection | 5 kg, peak | |
| Electromagnetic Sensitivity | CE | |
| Sealing | Welded, Hermetic (IP68) | |
| Submersible Depth (AC194-2D/3D/6D) | 200 ft | 60 m |
| Physical | | |
| Sensing Element | PZT Ceramic | |
| Sensing Structure | Shear Mode | |
| Weight | 3.3 ounces | 93 grams |
| Case Material | 316L Stainless Steel | |
| Mounting | Captive Bolt | |
| Connector (non-integral) | 2 Pin MIL-C-5015 | |
| Resonant Frequency | 1380 kCPM | 23 kHz |
| Mounting Torque | 2 ft·lb to 5 ft·lb | 2.7 N·m to 6.8 N·m |
| Mounting Hardware | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| Calibration Certificate | CA10 | |

TYPICAL FREQUENCY RESPONSE

