

AC154 Series

Low Cost Accelerometer, Side Exit Connector, 100 mV/g



VIBRATION ANALYSIS HARDWARE



Limited Availability



Product Features

Low Cost Side Exit Sensor

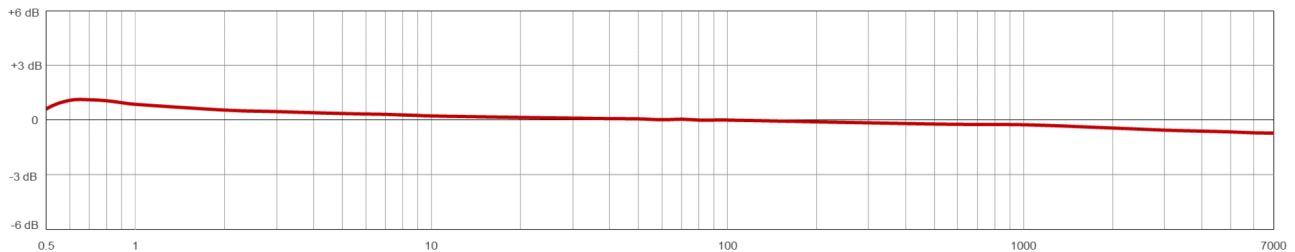
Economical Way to Trend Machinery

- ▶ ±50g, Peak Dynamic Range
- ▶ 0.5 - 7000 Hz (30 - 420,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection

| AC154-1A 2 Pin Connector | AC154-2C CB103 Integral Cable | AC154-3C CB206 Armored Integral Cable | AC154-6C CB611 Heavy Duty Armored Integral Cable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|--|---|------------------|---|------------|---|-----------|----------|-----|------------------|-------|------------|--------|------------------|---|-----------|----------|-----|------------------|-------|------------|--------|------------------|---|-----------|----------|-----|------------------|-------|------------|--------|------------------|
| <table border="1"> <tr><th>Connector Pin</th><th>Polarity</th></tr> <tr><td>A</td><td>(+) Signal/Power</td></tr> <tr><td>B</td><td>(-) Common</td></tr> </table> <p>Stock Product</p> | Connector Pin | Polarity | A | (+) Signal/Power | B | (-) Common | <table border="1"> <tr><th>Conductor</th><th>Polarity</th></tr> <tr><td>Red</td><td>(+) Signal/Power</td></tr> <tr><td>Black</td><td>(-) Common</td></tr> <tr><td>Shield</td><td>Cable Drain Wire</td></tr> </table> <p>Built To Order</p> | Conductor | Polarity | Red | (+) Signal/Power | Black | (-) Common | Shield | Cable Drain Wire | <table border="1"> <tr><th>Conductor</th><th>Polarity</th></tr> <tr><td>Red</td><td>(+) Signal/Power</td></tr> <tr><td>Black</td><td>(-) Common</td></tr> <tr><td>Shield</td><td>Cable Drain Wire</td></tr> </table> <p>Built To Order</p> | Conductor | Polarity | Red | (+) Signal/Power | Black | (-) Common | Shield | Cable Drain Wire | <table border="1"> <tr><th>Conductor</th><th>Polarity</th></tr> <tr><td>Red</td><td>(+) Signal/Power</td></tr> <tr><td>Black</td><td>(-) Common</td></tr> <tr><td>Shield</td><td>Cable Drain Wire</td></tr> </table> <p>Built To Order</p> | Conductor | Polarity | Red | (+) Signal/Power | Black | (-) Common | Shield | Cable Drain Wire |
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| A | (+) Signal/Power | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Black | (-) Common | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shield | Cable Drain Wire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|-------------|-----------------------------|----------------------|-------------------|
| Part Number | AC154 | M/AC154 | Environmental | | |
| Sensitivity (+20%) | 100 mV/g | | Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 30-420,000 CPM | 0.5-7000 Hz | Maximum Shock Protection | 5,000 g, peak | |
| Dynamic Range | ± 50 g, peak | | Electromagnetic Sensitivity | CE | |
| Electrical | | | Sealing | Welded, Hermetic | |
| Settling Time | <2.5 seconds | | Physical | | |
| Voltage Source (IEPE) | 18-30 VDC | | Sensing Element | PZT Ceramic | |
| Constant Current Excitation | 2-10 mA | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 10 Hz | 14 µg/√Hz | | Weight | 5.1 oz | 145 grams |
| Spectral Noise @ 100 Hz | 2.3 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 1000 Hz | 2 µg/√Hz | | Mounting | 1/4-28 | |
| Output Impedance | <100 ohm | | Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| Bias Output Voltage | 10-14 VDC | | Resonant Frequency | 1,320,000 CPM | 22000 Hz |
| Case Isolation | >10 ⁸ ohm | | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| | | | Mounting Hardware | 1/4-28 Captive Bolt | M6x1 Captive Bolt |
| | | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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