AC914 Series
Low Capacitance, Intrinsically Safe Accelerometer, Side Exit Connector/Cable, 50 mV/g

Requires Intrinsically Safe Barrier

Product Features
CSA/ATEX Approved
Excellent for Higher g Applications

- ±100 g, Peak Dynamic Range
- 50 mV/g Sensitivity ±10%
- Requires Intrinsic Safety Barrier (see page 348)

AC914-1A
2 Pin Connector

1.32 in [33 mm]
1.16 in [29 mm]
1.54 in [39 mm]
0.99 in [25 mm]
1.39 in [35 mm]
2.05 in [52 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE

Specifications
- Sensitivity (±10%): 50 mV/g
- Frequency Response (±3dB): 48-516,000 CPM
- Frequency Response (±10%): 90-300,000 CPM
- Dynamic Range: ± 100 g, peak
- Electrical
  - Settling Time: <3 Seconds
  - Voltage Source (IEPE): 18-28 VDC
  - Constant Current Excitation: 2-10 mA
  - Spectral Noise @ 10 Hz: 30 µg/Hz
  - Spectral Noise @ 100 Hz: 25 µg/Hz
  - Spectral Noise @ 1000 Hz: 25 µg/Hz
  - Output Impedance: <100 ohm
  - Bias Output Voltage: 10-14 VDC
  - Case Isolation: >10^6 ohm

AC914-3C
Armored Integral Cable

1.32 in [33 mm]
1.16 in [29 mm]
1.54 in [39 mm]
0.99 in [25 mm]
1.39 in [35 mm]
1.78 in [45 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE

Specifications
- Environmental
  - Temperature Range: -40 to 250°F
  - Maximum Shock Protection: 5,000 g, peak
  - Electromagnetic Sensitivity: CE
  - Sealing: IP68
  - Sensing Element: PZT Ceramic
  - Sensing Structure: Shear Mode
  - Weight: 5.3 oz, 151 grams
  - Case Material: 316L Stainless Steel
  - Mounting Torque: 2 to 5 ft. lbs., 2,7 to 6.8 Nm

AC914-9C
Integral Cable

1.32 in [33 mm]
1.16 in [29 mm]
1.54 in [39 mm]
0.99 in [25 mm]
1.39 in [35 mm]
0.99 in [25 mm]
1/4-28 OR M6 X 1 MOUNTING BOLT
1/4-28 TAPPED HOLE

Specifications
- Environment
  - Temperature Range: -40 to 121°C
  - Maximum Shock Protection: 5,000 g, peak
  - Electromagnetic Sensitivity: CE
  - Sealing: IP68
  - Sensing Element: PZT Ceramic
  - Sensing Structure: Shear Mode
  - Weight: 5.3 oz, 151 grams
  - Case Material: 316L Stainless Steel

Ordering Information

<table>
<thead>
<tr>
<th>Standard</th>
<th>AC914-1A</th>
<th>AC914-3C</th>
<th>AC914-9C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>M/AC914-1A</td>
<td>M/AC914-3C</td>
<td>M/AC914-9C</td>
</tr>
<tr>
<td>Sensor Pin</td>
<td>Red (+) Signal / Power</td>
<td>Red (+) Signal / Power</td>
<td>Red (+) Signal / Power</td>
</tr>
<tr>
<td>Shield</td>
<td>M (ground)</td>
<td>M (ground)</td>
<td>M (ground)</td>
</tr>
<tr>
<td>Connector Pin</td>
<td>Red (+) Signal / Power</td>
<td>Red (+) Signal / Power</td>
<td>Red (+) Signal / Power</td>
</tr>
<tr>
<td>Emblem</td>
<td>Black (Common)</td>
<td>Black (Common)</td>
<td>Black (Common)</td>
</tr>
<tr>
<td>Cable Drain Wire</td>
<td>M (ground)</td>
<td>M (ground)</td>
<td>M (ground)</td>
</tr>
</tbody>
</table>

Cable Termination Options: L, Z

Read Before Purchasing
Important information on Regulatory Approvals and Requirements on Pages 90 & 91

Backed by our Unconditional Lifetime Warranty
www.ctconline.com