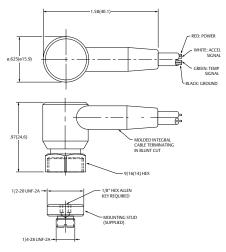
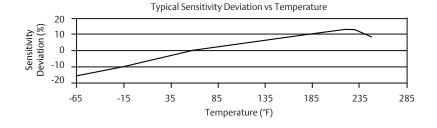
Low Power Accelerometer with Temperature

Specially designed, high performance, low power accelerometer with temperature output for the AMS 9420 Wireless Vibration Transmitter enables up to five years operating life with a single SmartPower module.

| Dynamic Performance | |
|---------------------------------|--|
| Temperature Sensitivity | 10 mV/°C with - 50°C Offset |
| Acceleration Sensitivity (±15%) | 25 mV/g (2.5 mV/m/s²) |
| Measurement Range | ±80 g (784 m/s²) |
| Frequency Range (±3 dB) | 1.6 to 10,000 Hz (96 to 600,000 cpm) |
| Mounted Resonant Frequency | 25 kHz Nominal |
| Broadband Resolution | 3 mg rms (29 mm/s²) (1 to 10 KHz) |
| Amplitude Linearity | ±1% (0 Based Straight Line Method) |
| Transverse Sensitivity | ≤7% |
| Environmental / Safety | |
| Shock Limit | 5,000g pk (49,050 m/s²) |
| Temperature Range | -40 to 121°C (-40 to 250°F) |
| Sealing | Ероху |
| Enclosure Rating | IP68 / Hazardous Location Approved |
| Agency Ratings (All Standard) | CE |
| | Exia IIC T4, AExia IIC T4 |
| | Exia IIC T4, 40° ≤ Ta ≤ 121°C, II 1 G |
| | Cl 1 Div 1 (Groups A, B, C, D), CLII Div 1 (Groups E, F, G), CLII Div1 |
| | Cl 1 Div 2 (Groups A, B, C, D), ExnL IIC T4, AExnA IIC T4 |
| | Ex nL IIC T4, 40° ≤ Ta ≤ 121°C, II 3 G |











| Electrical | |
|------------------------------------|--|
| Settling Time | ≤2 sec (Within 1% of Bias) |
| Discharge Time Constant | ≥0.1 sec |
| Excitation Voltage / Output Bias | 5 VDC / 2.3 to 2.7 VDC |
| Output Impedance | <100 ohms |
| Case Isolation | >10 ⁸ ohms |
| Mechanical | |
| Weight | 23 grams (0.81 oz) Sensor Only |
| Mounting Stud / Torque | 1/4-28 NPT / 2.7 to 6.8 Nm (2 to 5 lb ft) |
| Mounting Hex / Torque | 9/16" Flats / 9.5 to 10.8 Nm (7 to 8 lb ft) |
| Sensor Element / Geometry | Ceramic / Shear |
| Case Material | Stainless Steel |
| Connector Type (Side) | Molded Integral Cable/4 Wire/Tinned Leads |
| Supplied Accessories | |
| Single Point Calibration at 100 Hz | |
| Mounting Stud | |
| Versions | |
| 1. A0394DI-1 | Green Jacket, 9 meter Cable |
| 2. A0394DI-4 | Green Jacket, 30 meter Cable |
| 3. A0394DA | Armored, Green Jacket, 3 meter Cable |
| 4. A0394DA-1 | Armored, Green Jacket, 9 meter Cable |
| 5. A0394DA-4 | Armored 23 meter, Green Jacket, 30 meter Cable |
| 6. A0394DAC | Armored, Teflon Coated, 3 meter Cable |
| 7. A0394DAC-1 | Armored, Teflon Coated, 9 meter Cable |
| 8. A0394DAC-4 | Armored 23 meter, Teflon Coated, 30 meter Cable |

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