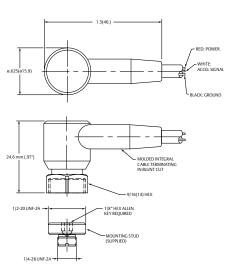
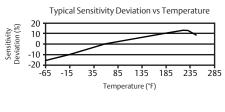
## **Low Power Accelerometer**

Specially designed, high performance, low power accelerometer for the AMS 9420 Wireless Vibration Transmitter.

Dynamic Performance	
Sensitivity (±15%)	25 mV/g (2.5 mV/m/s <sup>2</sup> )
Measurement Range	±80 g (±784 m/s²)
Frequency Range (±3 dB)	1.60 to 10000 Hz (96 to 600000 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	5000 g pk (49050 m/s²)
Temperature Range	-54 to 121°C (-65 to 250°F)
Sealing	Ероху
Enclosure Rating	IP68 / Hermetic
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), CLIII 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	5 VDC
Output Bias	2.3 to 2.7 VDC
Output Impedance	<150 ohms
Case Isolation	>10 <sup>8</sup> ohms



Details shown for Model A0394RI-1







Mechanical	
Weight	23 grams (0.81 oz) Sensor Only
Mounting Stud/Torque	<sup>1</sup> / <sub>4</sub> -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/3 Wire/ Tinned Leads
Supplied Accessories	
3 Point Calibration	
Mounting Stud (Part No. MHM-85493)	
Versions <sup>1</sup>	
1. A0394RI-1	Green Jacket, 9 meter Cable
2. A0394RI-4	Green Jacket, 29 meter Cable
3. A0394RA-1	Armored, Green Jacket, 9 meter Cable
4. A0394RA-4	Armored 23 meter, Green Jacket, 29 meter Cable
5. A0394RAC-1	Armored PTFE Coated, Green Jacket, 9 meter Cable
6. A0394RAC-4	Armored 23 meter, PTFE Coated, Green Jacket, 29 meter Cable

<sup>1</sup> Additional lengths may be available as special order.

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