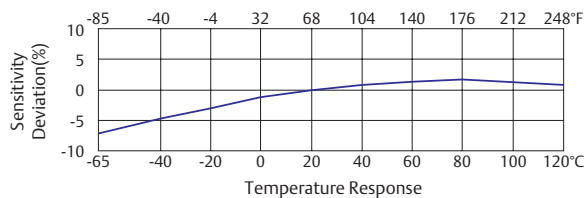
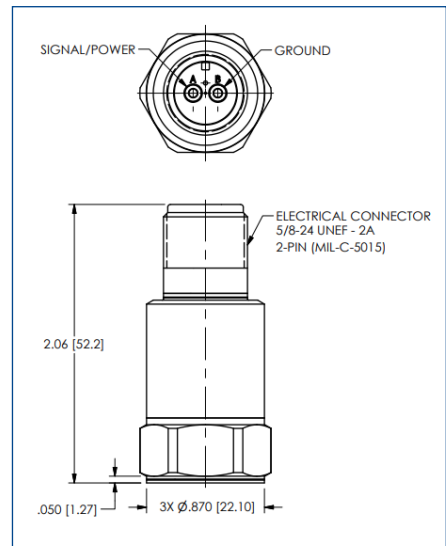


Safety-Rated Accelerometer

Dynamic Performance	
Sensitivity (±5%)	100 mV/g (10.2 mV/m/s ²)
Measurement Range	±50 g (±490 m/s ²)
Frequency Range (±3 dB)	0.20 to 15,000 Hz (12 to 900,000 cpm)
Resonant Frequency	30 kHz Typical
Amplitude Linearity	±1% (0 Based, Least Squares, Straight Line)
Transverse Sensitivity	≤5%
Environmental	
Shock Limit	5,000 g pk (49,050 m/s ²)
Temperature Range	-54 to 121°C (-65 to 250°F)
Sealing	IP68 / Welded Hermetic
Agency Ratings (all standard)	CE
	Class I, Div. 1 (Groups A, B, C, D)
	Class II, Div. 1 (Groups E, F, G)
	II 1 G Ex ia IIC T4 Ga (-54°C ≤ Ta ≤ 121°C)
	Ex ia IIC T4 Ga (-54°C ≤ Ta ≤ 121°C)
	Ex nA IIC T4 Gc (-54°C ≤ Ta ≤ 121°C)
Electrical	
Settling Time	≤5 sec (Within 1% of Bias)
Discharge Time Constant	≥0.8 sec
Excitation Voltage / Current	18 to 28 VDC / 2 to 20 mA
Output Impedance	<100 ohms
Output Bias	8 to 12 VDC
Broadband Resolution (<10 kHz)	50 µg (490 µm/s ²) Electrical Noise
Case Isolation	>108 ohms



Mechanical	
Weight / Case Material	94 grams (3.3 oz) / Stainless Steel
Mounting Thread	¼-28 UNF-2B
Mounting Torque	2.7 to 6.8 Nm (2 to 5 lb ft)
Sensor Element / Geometry	Ceramic / Shear
Connector Type (Top)	MIL-C-5015, 2 Pin
Supplied Accessories	
Three Point Calibration	
¼-28 Mounting Stud	

Ordering Information	
PR9270-EX	Accelerometer sensor only

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