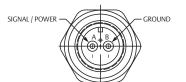
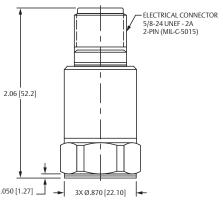
Safety Rated Velocity Sensor

Dynamic Performance	
Sensitivity (±10%)	3937 mV/m/s (100 mV/in/s)
Measurement Range	±1.27 m/s (±50 in/s)
Frequency Range (±3 dB)	3 to 9000 Hz (180 to 540,000 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/s²)
Temperature Range	-54 to 121°C (-65 to 250°F)
Sealing	IP68 / Welded Hermetic
Agency Ratings	CE
	Class I, Div. 1 (Groups A, B, C, D)
	II 1 G Ex ia IIC T4 Ga (-54°C ≤ Ta ≤ 121°C)
	Ex ia IIC T4 Ga (-54°C \leq Ta \leq 121°C)
	Ex nA IIC T4 Gc (-54°C ≤ Ta ≤ 121°C)
Electrical	
Settling Time	≤30 sec (within 1% of bias)
Excitation Voltage / Current	18 to 28 VDC / 2 to 10 mA
Output Impedance	<100 ohms
Output Bias	8 to 12 VDC
Broadband Resolution (<10 kHz)	450 μin/s (11.4 μm/s) Electrical Noise
Case Isolation	>10 ⁸ ohms











Typical Sensitivity Deviation vs Tempetature 10 Sensitivity Deviation(%) 0 -10 _____ -65 85 235 -15 35 135 185 Temperature (°F)



AMS

PR9270V-EX

Mechanical	
Weight / Case Material	94 grams (3.3 oz) / Stainless Steel
Mounting Thread / 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	
1⁄4-28 Mounting Stud	

Order Information	
PR9270V-EX	Velocity Sensor only

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