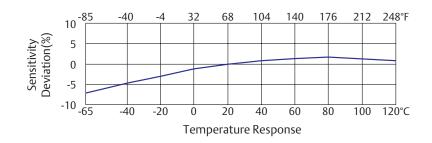
## **Safety-Rated Accelerometer**

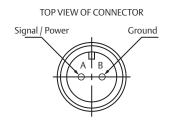
Dynamic Performance	
Sensitivity (±5%)	100 mV/g (10.2 mV/m/s²)
Measurement Range	±50 g (±490 m/s²)
Frequency Range (±3 dB)	0.20 to 10,000 Hz (12 to 600,000 cpm)
Mounted Resonant Frequency	20 kHz Nominal
Amplitude Linearity	±1% (0 Based, Least Squares, Straight Line)
Transverse Sensitivity	≤5%

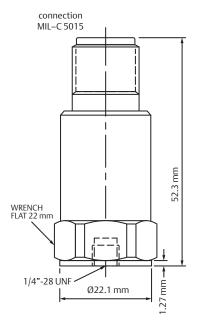
Environmental	
Shock Limit	5,000 g pk (49,050 m/s²)
Temperature Range	-54 to 121°C (-65 to 250°F)
Sealing	IP68 / Welded Hermetic
Agency Ratings	CE
	ATEX Ex II 1G EEx ia IIC T4 -54 ≤ Ta ≤ 121°C

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/s²) Electrical Noise
Case Isolation	>10 <sup>8</sup> ohms













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Mechanical	
Weight / Case Material	94 grams (3.3 oz) / Stainless Steel
Mounting Thread	½-28 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

1/4-28 Mounting Stud, either 1/4-28 to M6x1 or M10x1

Typical Part Numbers				
PR9270-Ex	Accelerometer sensor only	9200-00109		
PR9670/000-000	5 m, Shielded 2 wire, no armor, blunt cut Cable	9700-00046		
PR9670/001-000	10 m, Shielded 2 wire, no armor, blunt cut Cable	9700-00047		
Harting Connection Assembly	6 Pin M and F with Housings	9500-00064		

Cable Order Matrix	PR9670 /	X	х	Х	Х	х
Cable	2 Pole (shield grounded at instrument) 3 Pole (shield grounded at sensor)	0				
Armored Cable	WITH WITHOUT		1 0			
Cable Length	0(5 m), 1(10 m), 2(15 m), 3(20 m)			Х		
Cable Termination	Blunt cut – with stripped wire ends Harting connection				0	
Agency Rating	CE and ATEX standard					EX

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