

Safety Rated Accelerometer

DYNAMIC PERFORMANCE

Sensitivity ($\pm 5\%$)	100 mV/g (10.2 mV/m/s ²)
Measurement Range	± 50 g (± 490 m/s ²)
Frequency Range (± 3 dB)	0.20 to 15000 Hz (12 to 900,000 cpm)
Mounted Resonant Frequency	30 kHz nominal
Amplitude Linearity	$\pm 1\%$ (0 based, least squares, straight line method)
Transverse Sensitivity	$\leq 5\%$

ENVIRONMENTAL

Shock Limit	5000 g pk (49050 m/s ²)
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 \leq Ta \leq 121°C

ELECTRICAL

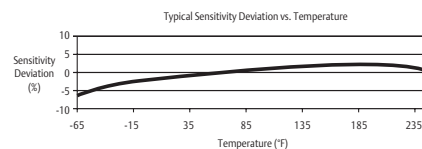
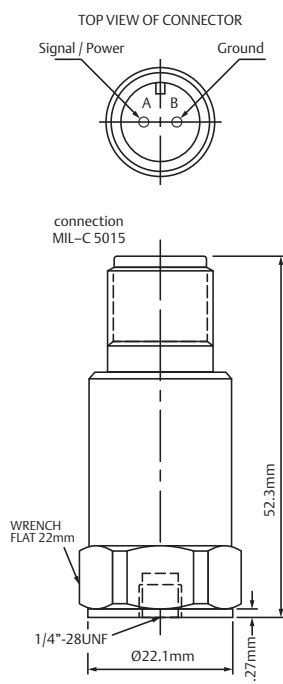
Settling Time	≤ 5 sec (within 1% of bias)
Discharge Time Constant	≥ 0.8 sec
Excitation Voltage/Current	18 to 28 VDC/2 to 20 mA
Output Impedance	< 100 ohms
Output Bias	8 to 12 VDC
Broadband Resolution (< 10 KHz)	50 μ g (490 μ m/s ²) electrical noise
Case Isolation	$> 10^8$ ohms

MECHANICAL

Weight/Case Material	94 grams (3.3 oz)/Stainless Steel
Mounting Thread	1/4"-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



Specifications Sheet

January 2014

PR 9270-Ex

TYPICAL PART NUMBERS		
PR 9270-Ex	Accelerometer Sensor only	9200-00109
PR 9670/000-000	5m, Shielded 2 wire, no armor, blunt cut Cable	9700-00046
PR 9670/001-000	10m, 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	X	X	-	X	X
Cable:	2 Pole (shield grounded at instrument 3 Pole (shield grounded at sensor)	0 1						
Armored Cable	WITHOUT WITH		0 1					
Cable Length	0(5m), 1(10m), 2(15m), 3(20m)			X				
Cable Termination	Blunt Cut – with stripped wire ends Harting Connection					0 1		
Agency Rating	CE and ATEX standard							EX

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