Safety-Rated Accelerometer

Measurement Range ±	00 mV/g (10.2 mV/m/s ²)		
	:50 g (±490 m/s²)		
Frequency Range (±3 dB) 0.	0.20 to 10,000 Hz (12 to 600,000 cpm)		
Mounted Resonant Frequency 20	0 kHz Nominal		
Amplitude Linearity ±	±1% (0 Based, Least Squares, Straight Line)		
Transverse Sensitivity <<	5%		
Environmental			
Shock Limit 5,	5,000 g pk (49,050 m/s²)		
Temperature Range -5	54 to 121°C (-65 to 250°F)		
Sealing IP	P68 / Welded Hermetic		
Agency Ratings C	CE		
Ā	TEX 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 12	8 to 28 VDC / 2 to 20 mA		
Output Impedance <	100 ohms		
Output Bias 8	to 12 VDC		
Broadband Resolution (<10 kHz) 50	i0 μg (490 μm/s²) Electrical Noise		
Case Isolation >	10 ⁸ ohms		





TOP VIEW OF CONNECTOR Signal / Power Ground







September 2014

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

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	6 Pin M and F with Housings	9500-00064			

Harting Connection 6 Pin M and F with Housings Assembly

Cable Order Matrix	PR9670	X	X	X	X	Х
Cable	2 Pole (shield grounded at instrument) 3 Pole (shield grounded at sensor)	0 1				
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 1	
Agency Rating	CE and ATEX standard					ΕX

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