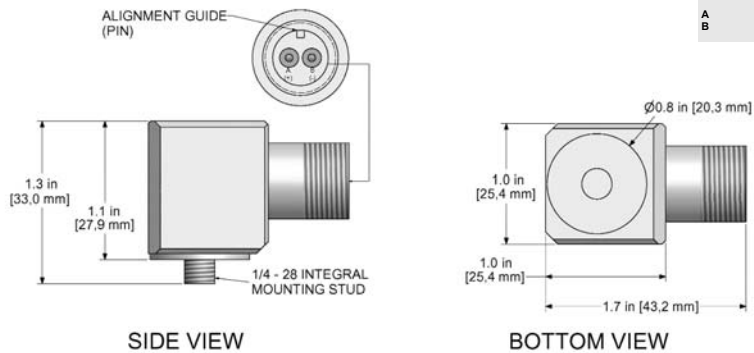


AC116-1A

Magnet Mount Accelerometer, Side Exit Connector, 100 mV/g

AC116-1A

2 Pin Connector



Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Part Numbers & Ordering Information:	AC116-1A	Magnet Mount accelerometer, 100 mV/g, 2 pin side connector
--------------------------------------	----------	--

<u>Performance Specifications</u>	<u>English</u>	<u>Metric</u>	<u>Environmental</u>	<u>English</u>	<u>Metric</u>
Sensitivity ±10%	100 mV/g	100 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response			Maximum Shock Protection	5,000 g, peak	5000 g, peak
±3 dB	30-900,000 CPM	0.5-15000 Hz	Electromagnetic Sensitivity	CE	CE
±10%	120-600,000 CPM	2.0-10000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
Dynamic Range	±50 g, peak	±50 g, peak	Physical		
Electrical			Sensing Element	PZT Ceramic	PZT Ceramic
Settling Time (Turn on Time)			Sensing Structure	Shear Mode	Shear Mode
@ Room Temp (68°F/20°C)	<2.5 Seconds	<2.5 Seconds	Weight	4.3 oz.	124 grams
Power Requirement			Case Material	316L Stainless Steel	316L Stainless Steel
Voltage Source	18-30 VDC	18-30 VDC	Mounting Stud	1/4-28 Integral Stud	1/4-28 Integral Stud
Constant Current Excitation	2-10 mA	2-10 mA	Connector (AC116-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Electrical Noise (Typical)			Mechanical		
Broadband 2.5 Hz to 25 kHz	200 σg, rms	200 σg, rms	Resonant Frequency	1,920,000 CPM	32000 Hz
Spectral 10 Hz	14 σg/√Hz	14 σg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
100 Hz	2.3 σg/√Hz	2.3 σg/√Hz	Supplied Accessories		
1000 Hz	2 σg/√Hz	2 σg/√Hz	Calibration Certificate	CA10	CA10
Output Impedance, Max	<100 ohm	<100 ohm			
Bias Output Voltage	10-14 VDC	10-14 VDC			
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm			

Common Applications

Industries Served

- Automotive
- Pharmaceutical
- Steel
- Manufacturing
- Petrochemical
- Wastewater Treatment
- Military
- Power
- Mining
- Pulp and Paper

Typical Applications

- Air Compressors
- Dryer Sections <250° F (121° C)
- Motors
- Pumps, Underwater
- Air Handlers
- Fans
- Press Sections
- Roll and Process Equipment
- Conveyors
- Fourdriniers
- Presses and Stamping
- Spindles
- Cooling Towers
- Gear Boxes
- Pumps

Measurement Types

- Portable

For optional accessories, please see the *Sensor Accessory Selection Chart*.



VIBRATION ANALYSIS HARDWARE