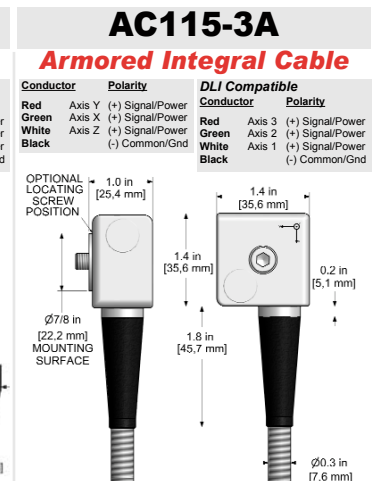
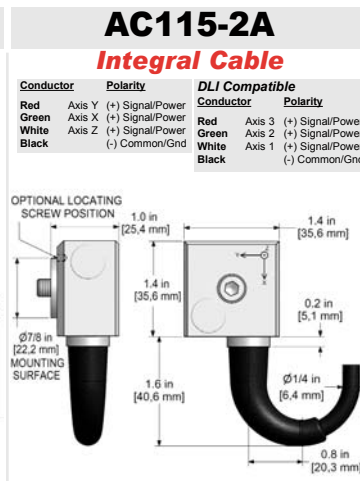
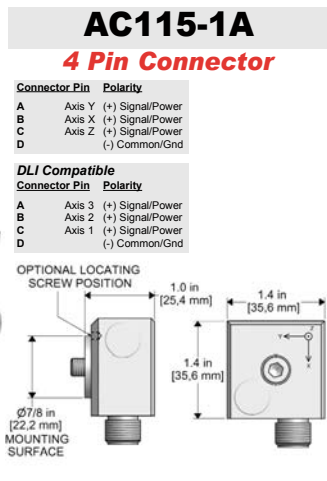


AC115 Series

Low Cost Accelerometer, Triaxial, 100 mV/g



Part Numbers & Ordering Information:	AC115-1A Triaxial accelerometer, 100 mV/g, 4 pin connector		AC115-2A/010-Z 10 ft. (3 m), blunt cut end		AC115-3A/010-Z 10 ft. (3 m), blunt cut end	
	When Ordering Metric, add "M/" prefix. (Example: M/AC115-2A/010-Z)			AC115-2A/020-Z 20 ft. (6 m), blunt cut end	AC115-3A/020-Z 20 ft. (6 m), blunt cut end	AC115-2A/030-Z 30 ft. (9 m), blunt cut end
			AC115-2A/050-Z 50 ft. (15 m), blunt cut end	AC115-3A/050-Z 50 ft. (15 m), blunt cut end	AC115-2A/100-Z 100 ft. (30 m), blunt cut end	AC115-3A/100-Z 100 ft. (30 m), blunt cut end

*Optional 10-32 mounting screw available for DLI users - CTC part number MH108-11B

* Custom Lengths Available Upon Request

Performance Specifications	English	Metric
Sensitivity	±15%	100 mV/g
Frequency Response	±3 dB	60-390,000 CPM
Dynamic Range	±50 g, peak	1.0-6500 Hz
Electrical		
Settling Time (Turn on Time) @ Room Temp (68°F/20°C)	<2.5 Seconds	<2.5 Seconds
Power Requirement		
Voltage Source	18-30 VDC	18-30 VDC
Constant Current Excitation	2-10 mA	2-10 mA
Electrical Noise (Typical)		
Resolution 2.5 Hz-25 kHz	325 σg, rms	325 σg, rms
Spectral 10 Hz	30 σg/√Hz	30 σg/√Hz
100 Hz	4 σg/√Hz	4 σg/√Hz
1000 Hz	2 σg/√Hz	2 σg/√Hz
Output Impedance, Max	<100 ohm	<100 ohm
Bias Output Voltage	7-14 VDC	7-14 VDC
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm

Environmental	English	Metric
Temperature Range	-65 to 250° F	-54 to 121° C
Electromagnetic Sensitivity	CE	CE
Sealing	Welded, Hermetic	Welded, Hermetic
Submersible Depth (AC115-2A)	500 ft.	152 m
Physical		
Sensing Element	PZT Ceramic	PZT Ceramic
Sensing Structure	Shear Mode	Shear Mode
Weight	7.1 oz.	200 g
Case Material	316L Stainless Steel	316L Stainless Steel
Mounting Hole	1/4-28	1/4-28
Connector (AC115-1A)	4 Pin, J Connector	4 Pin, J Connector
Integral Cable (AC115-2A)	CB105	CB105
Armored Cable (AC115-3A)	CB206,Armor Jacket	CB206,Armor jacket
Mechanical		
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Supplied Accessories		
Mounting Hardware	1/4-28 Captive Screw	M6x1 Captive Screw
Calibration Certificate	CA10	CA10

Common Applications

Industries Served
<ul style="list-style-type: none"> Automotive Power Manufacturing Pulp and Paper Military Steel Pharmaceutical Wastewater Treatment
Typical Applications
<ul style="list-style-type: none"> Air Compressors Fans Press Sections Spindles Air Handlers Fourdriners Presses and Stamping Conveyors Gear Boxes Pumps Cooling Towers Motors Roll and Process Equipment
Measurement Types
<ul style="list-style-type: none"> Permanent Mount Portable

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

