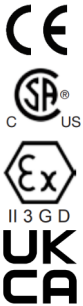


# AC935 Series

Nonincendive, CSA North America Class 1, Division 2 and ATEX Zone 2 Approved Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Product Features

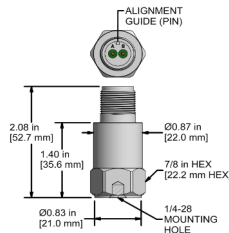
CSA North America Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; Class III

ATEX EU Zone 2 Approved

- ▶ NOTE: Class I, Division 2 / Ex nA IIC when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC.
- ▶ Suggested Approved Cabling: CB190 or CB296 Cable and Q2A or Q2N Connectors

### AC935-1A 2 Pin Connector

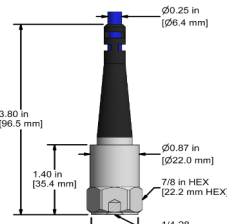
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC935-2C CB190 Integral Cable

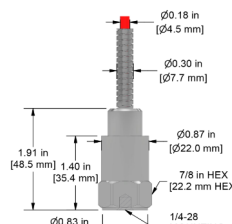
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC935-3C CB296 Armored Integral Cable

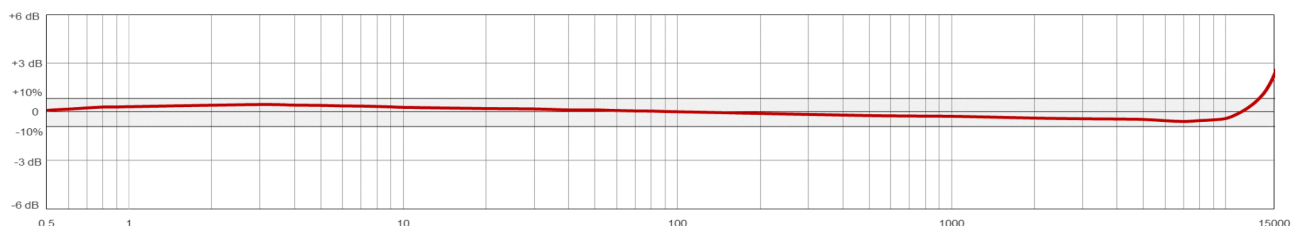
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC935	M/ or M8/AC935	<u>Environmental</u>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1.0-10000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
<u>Electrical</u>			<u>Physical</u>		
Settling Time	<3.5 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.2 oz	91 grams
Spectral Noise @ 10 Hz	30 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	19 µg/√Hz		Mounting Thread	0.83 in (21 mm) Diameter	
Spectral Noise @ 1000 Hz	15 µg/√Hz		Mounting Base with	1/4" Thread Tapped Hole	
Output Impedance	<100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 <sup>8</sup> ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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