

AC934 Series

Low Capacitance, Class I, Division 2/Zone 2 Accelerometer, For Use In “Non-Arcing, Non-Sparking” Environments, Side Exit Connector/Cable, 50 mV/g

Must Use “Class I, Division 2”

CB190 or CB206 Cable and D2Q Connectors

Product Features

Class I, Division 2/Zone 2 Rating

Excellent for Higher g Applications

Actual
Product
Size Shown

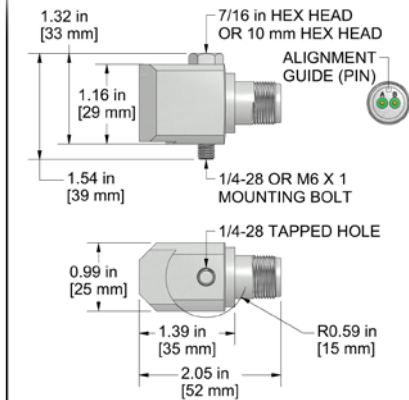


- ± 100 g, Peak Dynamic Range
- 50 mV/g, $\pm 10\%$ Sensitivity
- 0,8 - 8600 Hz (48 - 516,000 CPM) Frequency Response

AC934-1A

2 Pin Connector

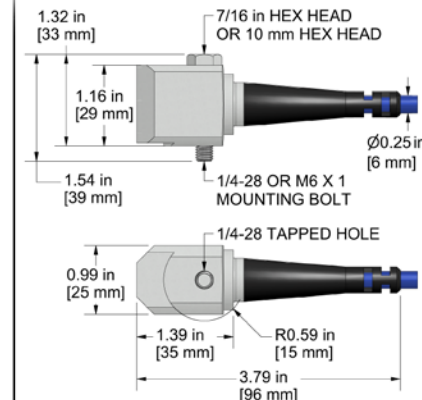
Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common



AC934-2C

Integral Cable

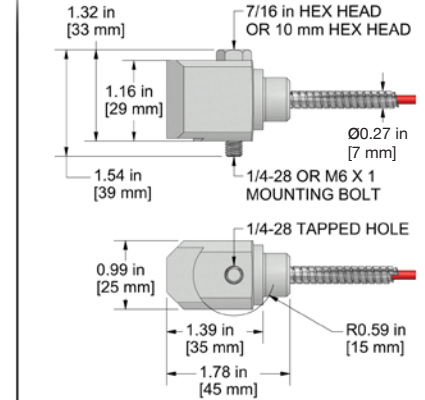
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



AC934-3C

Armored Integral Cable

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



Specifications	Standard	Metric
Part Number	AC934	M/AC934
Sensitivity ($\pm 10\%$)	50 mV/g	
Frequency Response (± 3 dB)	48-516,000 CPM	0,8-8600 Hz
Frequency Response ($\pm 10\%$)	90-300,000 CPM	1,5-5000 Hz
Dynamic Range	± 100 g, peak	
Electrical		
Settling Time	<3 Seconds	
Voltage Source (IEPE)	18-28 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	35 μ g/ $\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	25 μ g/ $\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	25 μ g/ $\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-40° to 250°F	-40° to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.3 oz	151 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,260,000 CPM	21000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Ordering Information

Standard	AC934-1A (1/4-28 Captive Bolt)	AC934-2C - / (1/4-28 Captive Bolt)	AC934-3C - / (1/4-28 Captive Bolt)
Metric	M/AC934-1A (M6x1 Captive Bolt)	M/AC934-2C - / (M6x1 Captive Bolt)	M/AC934-3C - / (M6x1 Captive Bolt)

Read Before Purchasing
Important information on
Regulatory Approvals and
Requirements
on Page 84

Cable Termination Options: L Z



VIBRATION ANALYSIS HARDWARE

Backed by our Unconditional Lifetime Warranty