

AC964 Series

Low Capacitance, IEC Certified (IECEX), Intrinsically Safe Accelerometer, Side Exit Connector/Cable, 50 mV/g

Actual
Product
Size Shown

IECEX



Requires **Intrinsically Safe Barrier**

Product Features

IECEX Approvals

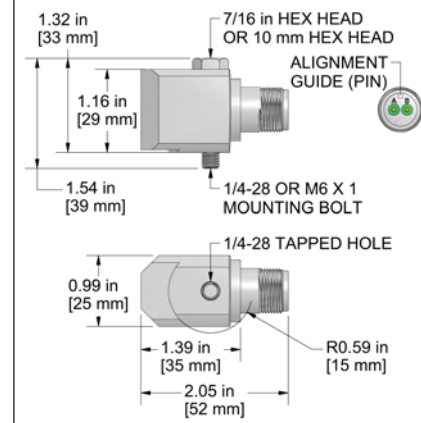
Excellent for Higher g Applications

- ± 100 g, Peak Dynamic Range
- 50 mV/g Sensitivity $\pm 10\%$
- Requires Intrinsic Safety Barrier (see page 348)

AC964-1A

2 Pin Connector

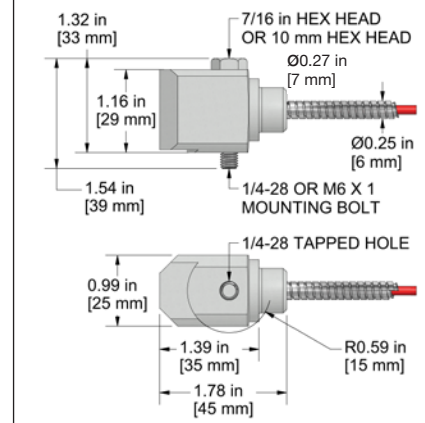
Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common



AC964-3C

Armored Integral Cable

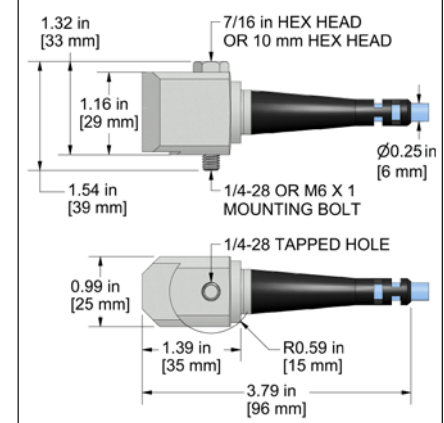
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



AC964-9C

Integral Cable

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



Specifications	Standard	Metric
Part Number	AC964	M/AC964
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	40 μ g/√Hz	
Spectral Noise @ 100 Hz	25 μ g/√Hz	
Spectral Noise @ 1000 Hz	26 μ g/√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	AC964-1A	AC964-3C - /	AC964-9C - /
	(1/4-28 Captive Bolt)	(1/4-28 Captive Bolt)	(1/4-28 Captive Bolt)
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC964-1A	M/AC964-3C - /	M/AC964-9C - /
	(M6x1 Captive Bolt)	(M6x1 Captive Bolt)	(M6x1 Captive Bolt)
		(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)



Read Before Purchasing

Important information on
Regulatory Approvals and Requirements
on Page 97

Cable Termination Options: L Z

Backed by our Unconditional Lifetime Warranty

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