

# AC194-M12A Series

Compact Multipurpose Accelerometer, 4 Pin M12 Connector, 100 mV/g,  $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



## Product Features

High Performance in an Affordable, Side Exit, Compact Sensor

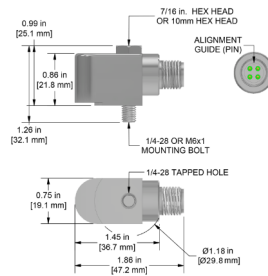
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity,  $\pm 10\%$
- ▶  $\pm 80g$  Dynamic Range
- ▶ 4 Pin M12 Connector

### AC194-M12A

#### 4 Pin Connector

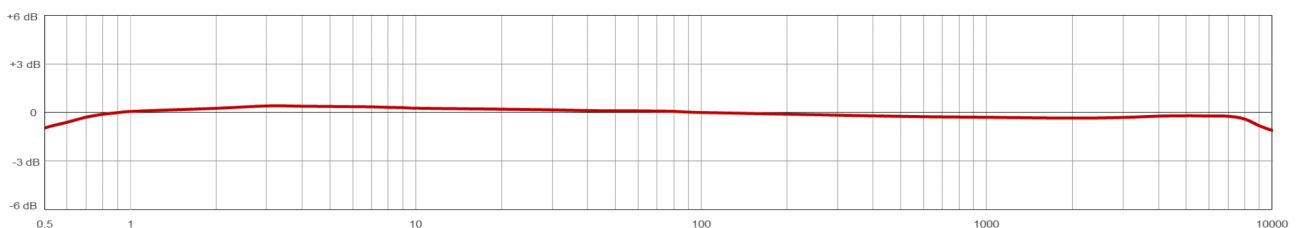
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC194-M12A	M/AC194-M12A	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 3dB$ )	30-600,000 CPM	0.5-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	$\pm 80 g$ , peak		Electromagnetic Sensitivity	CE	
<b>Electrical</b>			Sealing	Welded, Hermetic	
Settling Time	<2 Seconds		Submersible Depth	200 ft.	60 m
Voltage Source (IEPE)	18-30 VDC		<b>Physical</b>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	8 $\mu g/\sqrt{Hz}$		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	4 $\mu g/\sqrt{Hz}$		Weight	3.3 oz	93 grams
Spectral Noise @ 1000 Hz	2 $\mu g/\sqrt{Hz}$		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting	Captive Bolt	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	4 Pin M12	
Case Isolation	>10 <sup>9</sup> ohm		Resonant Frequency	1,380,000 CPM	23000 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

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

[www.ctconline.com](http://www.ctconline.com) | [sales@ctconline.com](mailto:sales@ctconline.com) | 585-924-5900