

# AC294 Series

Compact, High Performance Accelerometer, Side Exit Connector/Cable, 100 mV/g

SECTION 1 - VIBRATION SENSORS  
Accelerometers

Actual Product Size Shown

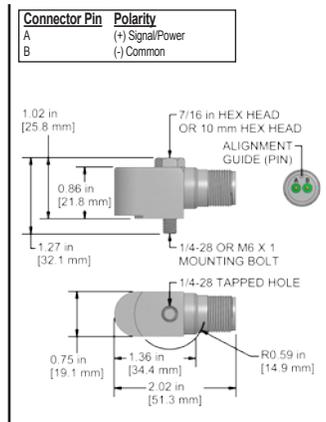


## Product Features

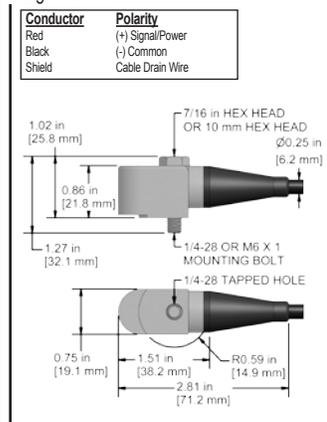
**Superior RF Immunity in a Compact 100 mV/g Sensor**  
Standard 2 Pin MIL Connector

- $\pm 80$  g, Peak Dynamic Range,  $\pm 5\%$  Sensitivity
- 10 kHz Frequency Response
- Improved Linearity

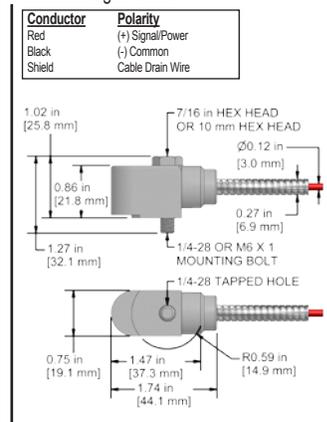
### AC294-1D 2 Pin Connector



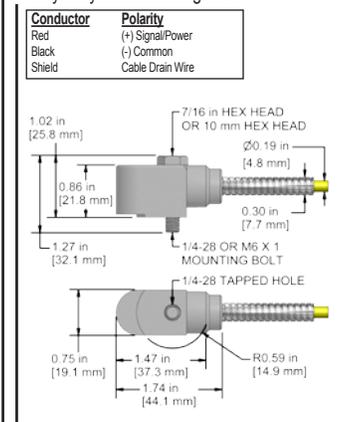
### AC294-2D Integral Cable



### AC294-3D Armored Integral Cable



### AC294-6D Heavy Duty Armored Integral Cable



Specifications	Standard	Metric
Part Number	AC294	M/AC294
Sensitivity ( $\pm 5\%$ )	100 mV/g	
Frequency Response ( $\pm 3$ dB)	18-600,000 CPM	0,3-10000 Hz
Frequency Response ( $\pm 10\%$ )	60-150,000 CPM	1,0-2500 Hz
Frequency Response ( $\pm 5\%$ )	600-120,000 CPM	10-2000 Hz
Dynamic Range	$\pm 80$ g, peak	
<b>Electrical</b>		
Setting Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	8 $\mu$ g/√Hz	
Spectral Noise @ 100 Hz	4 $\mu$ g/√Hz	
Spectral Noise @ 1000 Hz	2 $\mu$ g/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 <sup>8</sup> ohm	

Specifications	Standard	Metric
<b>Environmental</b>		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection		5,000 g, peak
Electromagnetic Sensitivity		CE
Sealing		IP68
Submersible Depth (AC294-2D/3D)	200 ft.	60 m
<b>Physical</b>		
Sensing Element		PZT Ceramic
Sensing Structure		Shear Mode
Weight	3.3 oz	93 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		2 Pin MIL-C-5015
Resonant Frequency	1,200,000 CPM	20000 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	AC294-1D (1/4-28 Captive Bolt)	AC294-2D - / (1/4-28 Captive Bolt)	AC294-3D - / (1/4-28 Captive Bolt)	AC294-6D - / (1/4-28 Captive Bolt)
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)	(maximum armor length 20 ft.) (cable length in feet) (termination)
Metric	M/AC294-1D (M6x1 Captive Bolt)	M/AC294-2D - / (M6x1 Captive Bolt)	M/AC294-3D - / (M6x1 Captive Bolt)	M/AC294-6D - / (M6x1 Captive Bolt)
	(length in meters) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)	(maximum armor length 6 m) (cable length in meters) (termination)



Backed by our Unconditional Lifetime Warranty

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