

AC192 Series

Compact, Multi-Purpose Accelerometer, Top Exit Connector/Cable, 100 mV/g

PRODUCT FEATURES

High Performance in an Affordable,
Compact Sensor

Very Low Noise & Superior RF Immunity

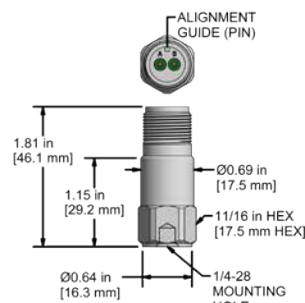
REGULATORY
APPROVALS



AC192-1D

2 Pin Connector

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

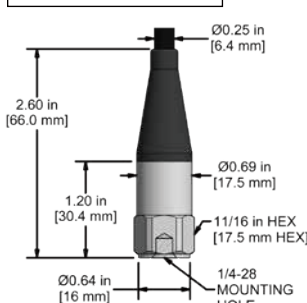


STOCK PRODUCT

AC192-2D

Integral Cable

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

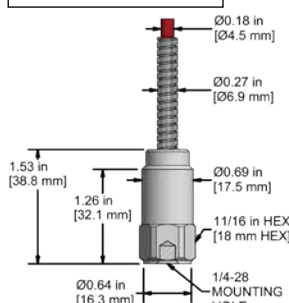


BUILD TO ORDER

AC192-3D

Armored Integral Cable

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

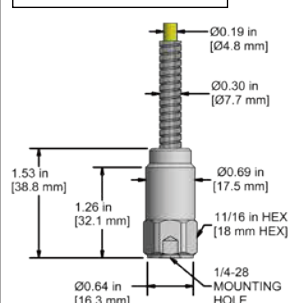


BUILD TO ORDER

AC192-6D

Heavy Duty Armored Integral Cable

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

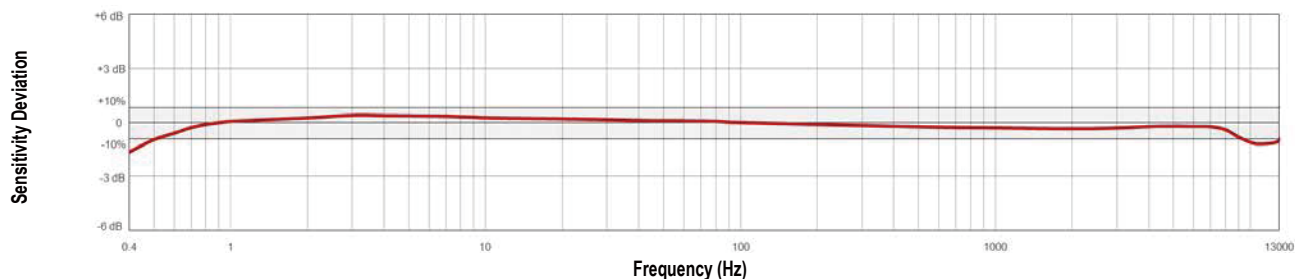


BUILD TO ORDER

Specifications	Standard	Metric
Part Number	AC192	M/AC192
Vibration		
Sensitivity (± 10 %)	100 mV/g	
Frequency Response (± 3 dB)	24 CPM to 780 kCPM	0.4 Hz to 13 kHz
Frequency Response (± 10 %)	60 CPM to 540 kCPM	1 Hz to 9 kHz
Frequency Response (± 5 %)	600 CPM to 300 kCPM	10 Hz to 5 kHz
Dynamic Range	± 80 g, peak	
Electrical		
Settling Time	< 2 seconds	
Voltage Source (IEPE)	18 Vdc to 30 Vdc	
Constant Current Excitation	2 mA to 10 mA	
Spectral Noise @ 10 Hz	8µg/√Hz	
Spectral Noise @ 100 Hz	4 µg/√Hz	
Spectral Noise @ 1 kHz	2 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10 Vdc to 14 Vdc	
Case Isolation	> 10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58°F to 250°F	-50°C to 121°C
Maximum Shock Protection	5 kg, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic (IP68)	
Submersible Depth (AC192-2D/3D/6D)	200 ft	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	1.8 ounces	51 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1560 kCPM	26 kHz
Mounting Torque	2 ft-lb to 5 ft-lb	2.7 N-m to 6.8 N-m
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

TYPICAL FREQUENCY RESPONSE



VIBRATION ANALYSIS HARDWARE