



AC166 Series

Negative Voltage Accelerometer, Side Exit 3 Pin Connector, 100 mV/g, ±5%



Product Features

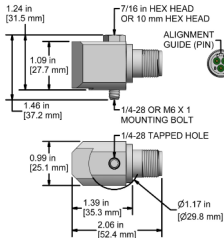
Comparable to Bently™ 330400

3 Wire Negative Voltage Sensor

- ▶ 100 mV/g Nominal Sensitivity
- ▶ ± 5% Sensitivity Tolerance
- ▶ ± 80 g, Peak Dynamic Range

AC166-1A 3 Pin Connector

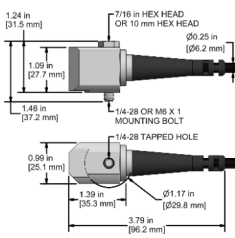
Connector	Polarity
Pin	
A	(+) Signal
B	(-) Power-Negative
C	(+) Common/Power



Stock Product

AC166-2C CB105 Integral Cable

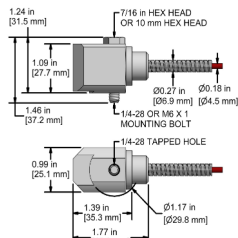
Conductor	Polarity
Red	(+) Signal
Black	(-) Common
White	(+) Common/Power
Shield	Cable Drain Wire



Built To Order

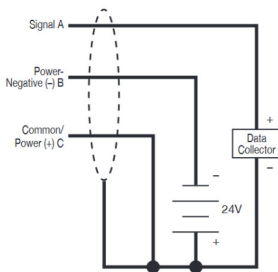
AC166-3C CB218 Armored Integral Cable

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



Built To Order

AC166 Wiring Diagram



Specifications	Standard	Metric
Part Number	AC166	M/AC166
Sensitivity (±5%)	100 mV/g	
Frequency Response (±3dB)	300-600,000 CPM	5-10000 Hz
Frequency Response (±10%)	600-180,000 CPM	10-3000 Hz
Dynamic Range	± 60 g, peak *Vsource ≤ -20V, 8.5Vbias	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	-20 to -28 VDC	
Constant Current Excitation	<1 mA	
Broadband Noise Floor (10 to 15k Hz)	.002 g RMS	
Output Impedance	<5 ohm	
Bias Output Voltage	-8.5 VDC Nominal	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Operating Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Sealing	Welded, Hermetic	
SIL Rating	SIL 2	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	5.1 oz	145 grams
Case Material	316 Stainless Steel	
Connector (Non-Integral)	3 Pin MIL-C-5015	
Resonant Frequency	1,320,000 CPM	22000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm