

AC165 Series

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



VIBRATION ANALYSIS HARDWARE



Product Features

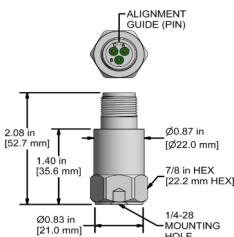
Comparable to Bently™ 330400

3 Wire Negative Voltage Sensor

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

AC165-1A 3 Pin Connector

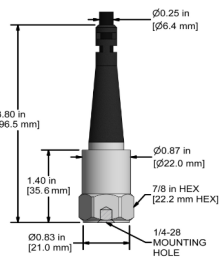
Connector Pin	Polarity
A	(+) Signal
B	(-) Power-Negative
C	(+) Common/Power



Stock Product

AC165-2C CB105 Integral Cable

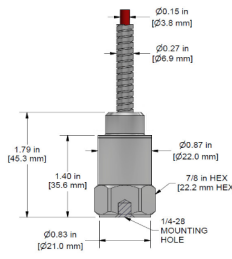
Conductor	Polarity
Red	(+) Signal
Black	(-) Power-Negative
White	(+) Common/Power
Shield	Cable Drain Wire



Built To Order

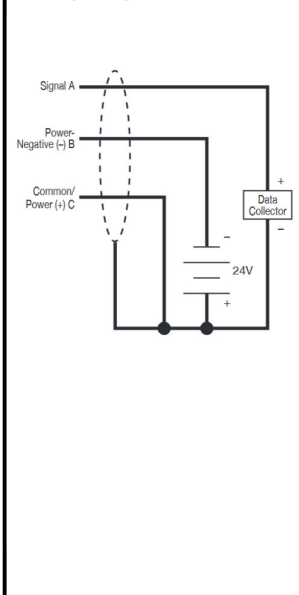
AC165-3C CB218 Armored Integral Cable

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



Built To Order

AC165 Wiring Diagram



Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC165	M/ or M8/AC165	Environmental		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	300-900,000 CPM	5,0-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	600-600,000 CPM	10,0-10000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 60 g, peak *Vsource ≤ -20V, 8.5Vbias		SIL Rating	SIL 2	
Electrical			Physical		
Settling Time	<2 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	-20 to -28 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	<1 mA		Weight	3.2 oz	90 grams
Broadband Noise Floor (10 to 15k Hz)	.002 g RMS		Case Material	316L Stainless Steel	
Output Impedance	<5 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Rias Output Voltage	-8.5 VDC		Connector (Non-Integral)	MIL-	