

3 Wire Negative Voltage Accelerometer, Top Exit Connector, 100 mV/g

Actual Product Size Shown



Product Features

Comparable to Bently™ 330400

± 5% Sensitivity Tolerance

- 3 Wire Negative Voltage Sensor
- ±80 g, Peak Dynamic Range
- 100 mV/g Nominal Sensitivity

AC165-1A

3 Pin Connector

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

ALIGNMENT GUIDE (PIN)



AC165-2C

Integral Cable

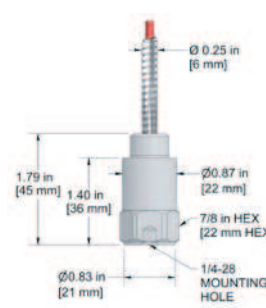
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Voltage
Shield	Cable Drain Wire



AC165-3C

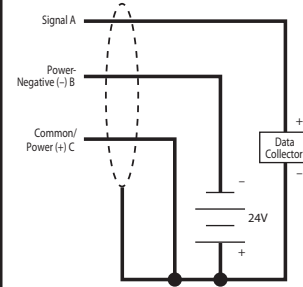
Armored Integral Cable

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



AC165

Wiring Diagram



Specifications	Standard	Metric
Part Number	AC165	M/AC165
Sensitivity (±5%)		100 mV/g
Frequency Response (±3dB)	450-900,000 CPM	7,5-15000 Hz
Frequency Response (±10%)	1200-600,000 CPM	20-10000 Hz
Dynamic Range		± 80 g, peak
Electrical		
Settling Time		<2 Seconds
Power Supply		(-24 ± 4) VDC, <15 mA
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		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection		5,000 g, peak
Sealing		IP68
Physical		
Sensing Element		PZT Ceramic
Sensing Structure		Shear Mode
Weight	3.1 oz	86 grams
Case Material		316L Stainless Steel
Mounting		1/4-28
Connector (non-integral)		3 Pin MIL
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 Stud	M6x1 Adapter Stud
Calibration Certificate		CA10

Ordering Information

Standard	AC165-1A (1/4-28 Stud) 	AC165-2C - / (1/4-28 Stud) [] [] [] [] [] [] [] [] (length in feet) (termination)	AC165-3C - / (1/4-28 Stud) [] [] [] [] [] [] [] [] [] [] [] [] (maximum armor length 100 ft.) (cable length in feet) (termination)
Metric	M/AC165-1A (M6x1 Adapter Stud) 	M/AC165-2C - / (M6x1 Adapter Stud) [] [] [] [] [] [] [] [] [] [] [] [] (length in meters) (termination)	M/AC165-3C - / (M6x1 Adapter Stud) [] [] [] [] [] [] [] [] [] [] [] [] (maximum armor length 30 m) (cable length in meters) (termination)

Cable Termination Options: L Z



VIBRATION ANALYSIS HARDWARE

Backed by our Unconditional Lifetime Warranty