

AC965 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive, Intrinsically Safe, IECEx/ANZEx/KC/EAC Zone 0,1
Approved Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



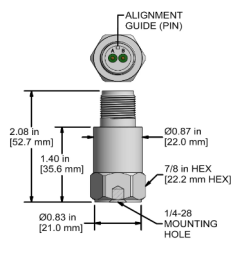
Regulatory Information

| | |
|--|---|
| Ex ia IIC T3/T4 | U _i = 28 Vdc I _i = 100 mA |
| AEx ia IIC T3/T4 | CSA 221421 |
| CLI Groups A, B, C, D | |
| CLII Groups F, G | IECEx CSA 07.0001 |
| CLIII | Ex ia IIC T3 |
| | Ex ia IIC T4 |
| Operating Temperature Code: T4 | Ex ia I Ma |
| Ambient Temperature Range = -40 to 80°C | ANZEx 18.4160 |
| Operating Temperature Code: T3 | |
| Ambient Temperature Range = -40 to 125°C | |

AC965-1A

2 Pin Connector

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

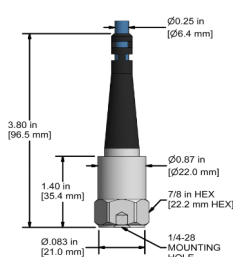


Stock Product

AC965-2C

CB193 Integral Cable

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

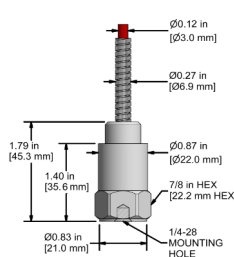


Built To Order

AC965-3C

CB296 Armored Integral Cable

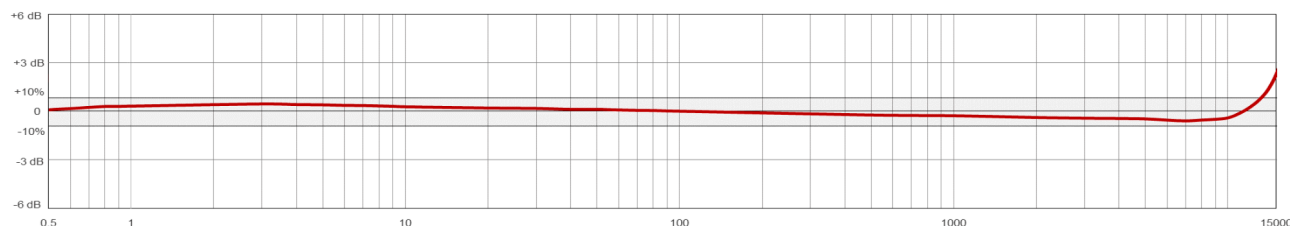
| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|----------------|-----------------------------|--------------------------|------------------------------|
| Part Number | AC965 | M/ or M8/AC965 | Environmental | | |
| Sensitivity (±10%) | 100 mV/g | | Operating Temperature Range | -40 to 250 °F | -40 to 121 °C |
| Frequency Response (±3dB) | 30-900,000 CPM | 0.5-15000 Hz | Maximum Shock Protection | 5,000 g, peak | |
| Frequency Response (±10%) | 60-600,000 CPM | 1.0-10000 Hz | Electromagnetic Sensitivity | CE | |
| Frequency Response (±5%) | 600-300,000 CPM | 10-5000 Hz | Sealing | Welded, Hermetic | |
| Dynamic Range | ± 50 g, peak | | Physical | | |
| Electrical | | | Sensing Element | PZT Ceramic | |
| Settling Time | <3 Seconds | | Sensing Structure | Shear Mode | |
| Voltage Source (IEPE) | 18-28 VDC | | Weight | 3.2 oz | 91 grams |
| Constant Current Excitation | 2-10 mA | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 10 Hz | 30 µg/√Hz | | Mounting Thread | 1/4-28 Blind Tapped Hole | |
| Spectral Noise @ 100 Hz | 19 µg/√Hz | | Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| Spectral Noise @ 1000 Hz | 15 µg/√Hz | | Resonant Frequency | 1,380,000 CPM | 23000 Hz |
| Output Impedance | <100 ohm | | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| Bias Output Voltage | 10-14 VDC | | Mounting Hardware Supplied | 1/4-28 Stud | M6x1 or M8x1.25 Adapter Stud |
| Case Isolation | >10 ⁸ ohm | | Calibration Certificate | CA10 | |

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900