Accelerometer General Purpose, Industrial, Ceramic Shear IEPE Top Exit

Features

Our line of low cost accelerometers with AC voltage output is designed for use with all types of data collectors, online analysis systems and TSI.

Protecting

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and Many More.



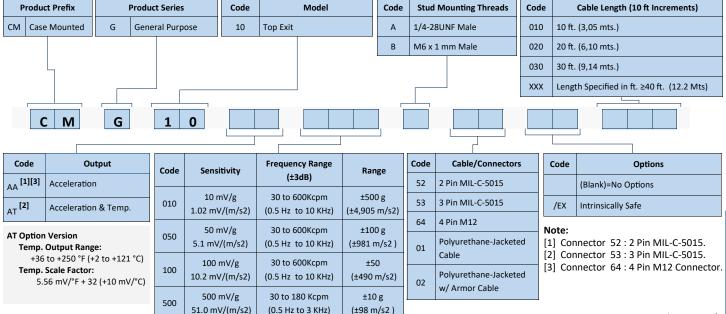
| Technical Performance | | Mechanical Performance | |
|-------------------------------------|----------------------------------|-------------------------------|------------------------------|
| Mounted Base Resonance: | 1500 Kcpm (25 KHz) | Case Material: | 304 Stainless Steel |
| Measurement Range | See: "How To Order" Table ±10% | Sensing Element/Construction: | Ceramic Shear |
| Frequency Range (±3 dB) : | See: "How To Order" Table | Mounting Torque: | 2 to 5 ft-lb (2.7 to 6.8 Nm) |
| Transverse Sensitivity: | ≤7% | Weight: | 1.8 oz (51 gm) |
| Non-Linearity: | ± 1% | Mounting Threads: | See: "How To Order" Table |
| Broadband Resolution (1 to 10 kHz): | 350 µg (3434 µm/sec²) | | |
| Electrical | | Environmental | |
| Excitation Voltage: | 18 to 28 VDC | Overload Limit (Shock) | 5000 g pk (49050 m/s² pk) |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA Temperature Range | |
| Settling Time (within 1% of bias) | ≤2.0 sec | Temperature Response | See Graph %/°F |
| Electrical Isolation (Case): | >10 ⁸ Ohm | Enclosure Rating | IP68 |
| Spectral Noise (10 Hz) : | 8.0 µg/√Hz (78.5 (µm/sec²)/√Hz) | | |

| Wiring | Accel | Accel & Gnd | Temp | Temp & Gnd |
|---------------------|-------|-------------|-------|------------|
| 2 Pin Mil-C-5015 | Pin A | Pin B | N/A | N/A |
| 3 Pin Mil-C-5015 | Pin A | Pin B | Pin C | N/A |
| 4 Pin M12 | Pin A | Pin B | N/A | N/A |
| Integral Cable (AA) | Red | Bue | N/A | N/A |
| Integral Cable (AT) | Red | Black | White | Green |

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order





SEC of America

807 E Main St. Durham, NC 27701. Ph: (919) 533-4920

sales@sec-america.com www.sec-america.com



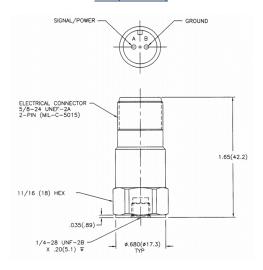
Accelerometer General Purpose, Industrial, Ceramic Shear IEPE Top Exit With Connector

TEMPERATURE OUTPU

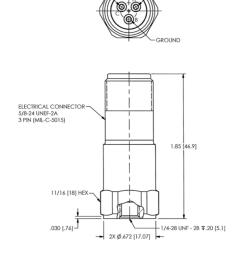
OUTLINE DRAWING MODEL CM-G10 ACCELEROMETER



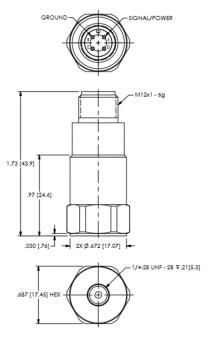
TOP VIEW OF CONNECTOR 2-PIN (MIL-C-5015)



TOP VIEW OF CONNECTOR



TOP VIEW OF CONNECTOR 4 PIN—M12



Option: EX , Hazardous Area Approval

Temperature Response Graph % / °F

All specifications are at room temperature unless otherwise specified.

Typical Sensitivity Deviation vs Temperature

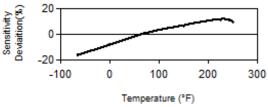
CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4

EEx nL IIC T4, -40°C<=Ta<=121°C, II 1 G

CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I

Ex ia IIC T4, AExia IIC, T4

EEx nL IIC T4, -40°C<=Ta<=121°C, II 3 G



Contact factory for specific approvals.

Product Notes:

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] Typical.
- [3] Zero-based, least-squares, straight line method.
- [4] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [5] 1/4-28 has no equivalent in S.I. units.



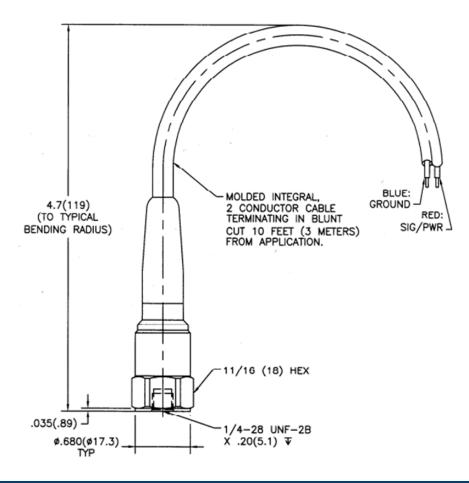
SEC of America 807 E Main St. Durham, NC 27701. Ph: (919) 533-4920 sales@sec-america.com www.sec-america.com



Accelerometer General Purpose, Industrial, Ceramic Shear ICP Top Exit Integral Polyurethane Cable

OUTLINE DRAWING MODEL CM-G10 ACCELEROMETER





Option: EX, Hazardous Area Approval

Temperature Response Graph % / °F

All specifications are at room temperature unless otherwise specified.

CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4

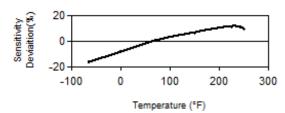
EEx nL IIC T4, -40°C<=Ta<=121°C, II 1 G

Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I

Ex ia IIC T4, AExia IIC, T4

EEx nL IIC T4, -40°C<=Ta<=121°C, II 3 G

Typical Sensitivity Deviation vs Temperature



Contact factory for specific approvals.

Product Notes:

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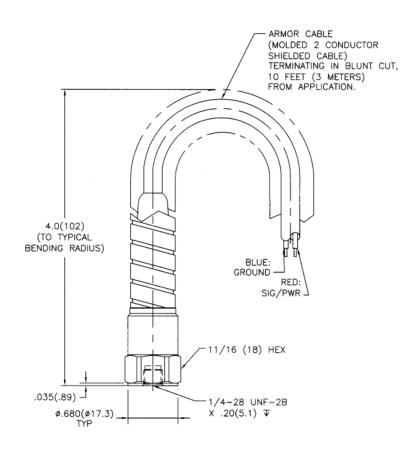
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Accelerometer General Purpose, Industrial, Ceramic Shear IEPE Top Exit With Integral Armored Cable



OUTLINE DRAWING MODEL CM-G10 ACCELEROMETER



Option: EX, Hazardous Area Approval

Temperature Response Graph % / °F

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CI I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4

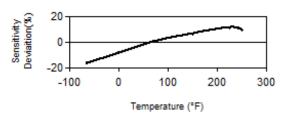
EEx nL IIC T4, -40°C<=Ta<=121°C, II 1 G

CI I, Div I, Groups A, B, C, D; CI II, Div I, Groups E, F, G; CI III, Div I

Ex ia IIC T4, AExia IIC, T4

EEx nL IIC T4, -40°C<=Ta<=121°C, II 3 G

Typical Sensitivity Deviation vs Temperature



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Product Notes:

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