

HS-183 Premium Triaxial Accelerometer

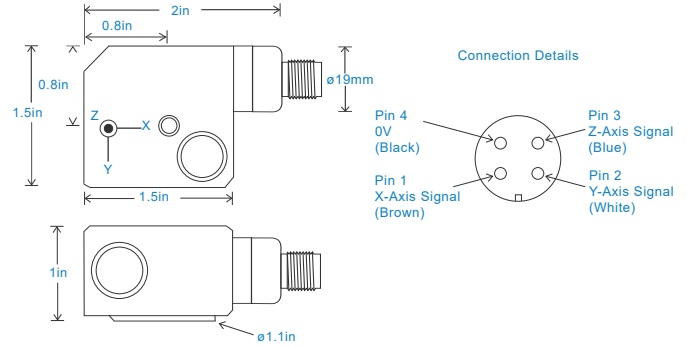
Three AC outputs via M12 Connector

Key Features

- Output via three axes
- Three way mounting option
- Customizable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



Technical Performance

| | |
|------------------------|--|
| Mounted Base Resonance | see 'How To Order' table (nominal) |
| Sensitivity | see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F per axes |
| Frequency Response | 120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3dB$ |
| Isolation | Base isolated |
| Range | see: 'How To Order' table |
| Transverse Sensitivity | Less than 5% |

Mechanical

| | |
|------------------------------|--|
| Case Material | Stainless Steel |
| Sensing Element/Construction | PZT/Shear |
| Mounting Torque | 8Nm |
| Mounting Bolt Provided | see: 'How To Order' table x 1.2in long |
| Weight | 8.3 oz. (nominal) - Stainless Steel |
| Screened cable assembly | HS-AC010 - straight |
| Mounting Threads | see: 'How To Order' table |

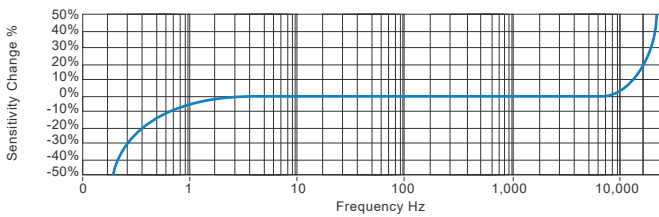
Electrical

| | |
|------------------|---------------------------|
| Electrical Noise | 0.1mg max |
| Current Range | 0.5mA to 8mA |
| Bias Voltage | 10 - 12 Volts DC |
| Settling Time | 1 second |
| Output Impedance | 200 Ohms max. |
| Case Isolation | $>10^8$ Ohms at 500 Volts |

Environmental

| | |
|-----------------------------|----------------|
| Operating Temperature Range | -67 to 300°F |
| Sealing | IP67 |
| Maximum Shock | 5000g |
| EMC | EN61326-1:2013 |

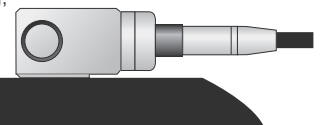
Typical Frequency Response (at 100mV/g)



Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

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

| | | | | | | | | | | | |
|--|---|----------|-------------------|---------------------------|----------|------------------------------------|----------|--|----------|----------|----------|
| Product Prefix HS - Hansford Sensors | Product Series 183 - Premium Triaxial Accelerometer | | | | | | | | | | |
| H | S | 1 | 8 | 3 | X | X | X | X | X | X | X |
| Extra Options (if required) F - Filtered | Sensitivity | | Range | Resonant Frequency | | Cable/Connector 54 - M12 | | Mounting Threads 02 - 1/4-28" UNF Male 06 - M6 x 1mm Male | | | |
| | 010 - 10mV/g | ±800g | 20kHz (1,800kcpm) | | | | | | | | |
| | 030 - 30mV/g | ±250g | 19kHz (1,680kcpm) | | | | | | | | |
| | 050 - 50mV/g | ±160g | 18kHz (1,560kcpm) | | | | | | | | |
| | 100 - 100mV/g | ±80g | 17kHz (1,440kcpm) | | | | | | | | |
| | 250 - 250mV/g | ±32g | 16kHz (1,320kcpm) | | | | | | | | |
| | 500 - 500mV/g | ±16g | 15kHz (1,200kcpm) | | | | | | | | |



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We reserve the right to alter the specification of this product without prior notice

TS1036U.3

