HS-100 Accelerometer

AC acceleration output via M12 Connector

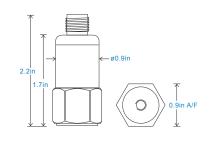
Key Features

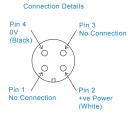
- · Most common seller
- · For use with data collector
- · Customizable features

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 ±10% Nominal 80Hz at 72°F Frequency Response 120cpm (2Hz) to 600kcpm (10kHz) ± 5% 90cpm (1.5Hz) to 720kcpm (12kHz) ± 10% 48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB Isolation

Base isolated Range see: 'How To Order' table Transverse Sensitivity Less than 5%

Mechanical

Case Material Sensing Element/Construction Mounting Torque Weight Sheilded Cable Assembly

Stainless Steel PZT/Compression 5.9ft. lbs 3.7 oz. (nominal) body only HS-AC010 - straight HS-AC011 - right angle see: 'How To Order' table

Electrical

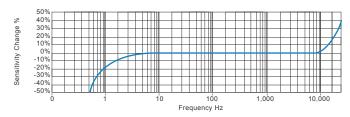
Excitation Voltage: 18-30Volts DC **Electrical Noise** 0.1mg max Current Range 0.5mA to 8mA Bias Voltage 10 - 12 Volts DC Settling Time 2 seconds Output Impedance 200 Ohms max. >108 Ohms at 500 Volts Case Isolation

Environmental

Mounting Threads

-67 to 284°F Operating Temperature Range IP67 Sealing Maximum Shock 5000g **EMC** EN61326-1:2013

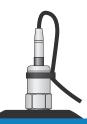
Typical Frequency Response (at 100mV/g)



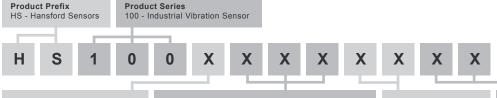
Applications

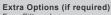
Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

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





- Intrinsically Safe

316L Stainless Steel

RT - Temperature Output PT100 Temperature Output

- 5% tolerance on sensitivity

Sensitivity - 10mV/g - 30mV/g - 50mV/g 050

- 250mV/g

- 500mV/g

100

Range **Resonant Frequency** ±800g ,040kcpm 1,980kcpm ±250g (33kHz) .920kcpm (32kHz) ±160a - 100mV/g ,800kcpm ±80g (30kHz) ±32g 680kcpm (28kHz)

1,560kcpm

(26kHz)

Cable/Connector

01 - PUR 02 - Braided 07 - Silicon

08 - Flame Retardant 50 - 2 Pin MS 54 - M12

Mounting Threads

01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male

08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male



www.hansfordsensors.com sales@hansfordsensors.com

