HS-170S Premium Accelerometer

AC acceleration output via M12 Connector

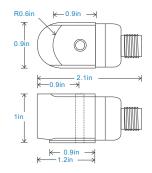
Key Features

- · Compact design
- · Premium design
- · Side entry for easy access

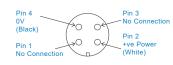
Industries

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





Connection Details



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 840kcpm (14kHz) ± 5% 90cpm (1.5Hz) to 960kcpm (16kHz) ± 10% 48cpm (0.8Hz) to 1,140kcpm (19kHz) ± 3dB

Isolation Base isolated see: 'How To Order' table Less than 5%

Range Transverse Sensitivity

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 5.9ft. lbs Mounting Bolt Provided see: 'How To Order' table x 1.2in long Weight 4.7 oz. (nominal) body only Connector Use booted connector only Mounting Threads see: 'How To Order' table

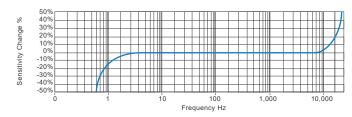
Electrical

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 >108 Ohms at 500 Volts

Environmental

-67 to 300°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

Product Prefix HS - Hansford Sensors 170 - Compact Premium Industrial Vibration Sensor

H 0

- 500mV/g

Extra Options (if required)

316L Stainless Steel

RT - Temperature Output PT100 S - 90° Side Exit

- Temperature Output - 5% tolerance on sensitivity Sensitivity Range **Resonant Frequency** - 10mV/g 800kcpm (30kHz) ±800g - 30mV/g ±250g ,680kcpm (28kHz) - 50mV/g - 100mV/g ±160g ,560kcpm (26kHz) 100 .440kcpm (24kHz) ±80a - 250mV/g ±32g 1,320kcpm (22kHz)

1,200kcpm

(20kHz)

Cable/Connector 01 - PUR

02 - Braided 07 - Silicon 08 - Flame Retardant

50 - 2 Pin MS 54 - M12

Mounting Threads 02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male



www.hansfordsensors.com sales@hansfordsensors.com

