HS-170S Premium Accelerometer

AC acceleration output via M12 Connector

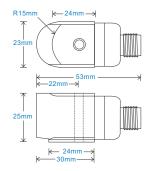
Key Features

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

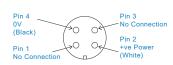
Industries

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









Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8 Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 135gms (nominal) body only Use booted connector only Connector Mounting Threads see: 'How To Order' table

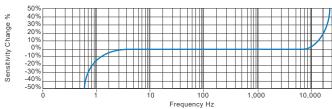
Electrical

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

-55 to 150°C Operating Temperature Range Sealing IP67 Maximum Shock 5000g EN61326-1:2013 **EMC**

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.)

Frequency Hz How To Order

Product Prefix

HS - Hansford Sensors

170 - Compact Premium Industrial Vibration Sensor



Extra Options (if required)

Filtered - 316L Stainless Steel Temperature Output PT100

- 90° Side Exit

- Temperature Output 5% tolerance on sensitivity

Sensitivity 010 - 10mV/g 030 - 30mV/g

- 50mV/g - 100mV/g - 250mV/g 100 ±32q - 500mV/g

Range ±800g Resonant Frequency ,800kcpm) ±2500 28kHz 1,680kcpm) (1,560kcpm) ±160g 26kHz ±80g 24kHz (1,440kcpm)

(1,320kcpm)

(1,200kcpm)

22kHz

20kHz

Cable/Connector

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



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