HS-105S High Temp. Accelerometer

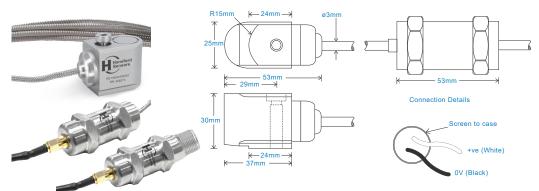
AC output via Low Noise Cable

Key Features

- · Includes external charge amplifier
- · Optional temperature ranges
- · Low noise cable

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

 Frequency Response
 2Hz (120cpm) to 10kHz (600kcpm) ± 5%

 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%

 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB

 Isolation
 Base isolated

 Range
 see: 'How To Order' table

 Transverse Sensitivity
 Less than 5%

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Compression
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 35mm long
Weight 185gms (nominal)
Maximum Cable Length 1000 metres
Cable see: 'How To Order' table - (20 metres
max between sensor and charge amplifier)
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
 2 seconds

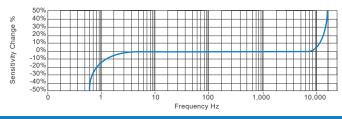
 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range -55°C to see 'How To Order' table for max Sealing IP65
Maximum Shock 5000g
EMC EN61326-1:2013

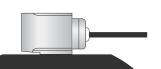
Typical Frequency Response (at 100mV/g)



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

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Product Series

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105 - Industrial Vibration Sensor

Cable Length (if integral cable)

QXX/XX - length before/after charge amp, specified in metres

Extra Options (if required)

Intrinsically Safe90° Side Exit5% tolerance on sensitivity

Sensitivity Range 010 - 10mV/g ±800g 030 - 30mV/g ±250g 050 - 50mV/g ±160g 100 - 100mV/g ±80g

- 250mV/g

- 500mV/g

 Range
 Resonant Frequency

 £800g
 28kHz
 (1,680kcpm)

 £250g
 26kHz
 (1,560kcpm)

 £160g
 24kHz
 (1,440kcpm)

 ±80g
 22kHz
 (1,320kcpm)

 ±32g
 20kHz
 (1,200kcpm)

 ±16g
 18kHz
 (1,080kcpm)

Cable 04 - Low Noise (150°C) 05 - Low Noise (250°C)

Connector
02 - Braided
50 - 2 Pin MS

*The above connectors can't be used with Intrinsically Safe Mounting Threads 02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male



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