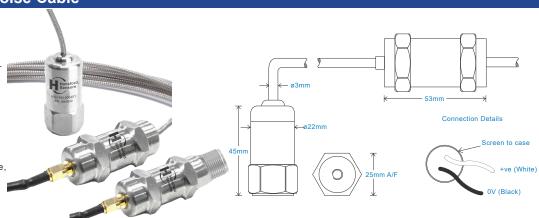
# HS-105 High Temp. Accelerometer AC output via Low Noise Cable

## **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 2Hz (120cpm) to 10kHz (600kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Transverse Sensitivity Less than 5%

#### Mechanical

Stainless Steel Case Material Sensing Element/Construction PZT/Compression Mounting Torque 8Nm Weight 125gms (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

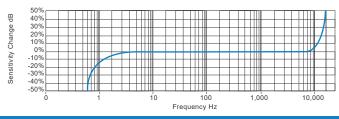
#### Electrical

**Electrical Noise** 0.1mg max Current Range 0.5mA to 8mA Bias Voltage 10 - 12 Volts DC Settling Time 2 seconds 200 Ohms max Output Impedance 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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105 - Industrial Vibration Sensor

Cable Length (if integral cable)

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

Extra Options (if required)

- Intrinsically Safe

- 90° Side Exit - 5% tolerance on sensitivity

Sensitivity 010 - 10mV/g Resonant Frequency ±800a 010 28kHz (1.680kcpm) - 30mV/g 26kHz ,560kcpm) 050 - 50mV/a ±160a 24kHz (1.440kcpm) - 100mV/g 22kHz (1,320kcpm) ±80g (1,200kcpm) - 250mV/g 20kHz (1,080kcpm) - 500mV/g

04 - Low Noise (150°C)

05 - Low Noise (250°C)

Connector 50 - 2 Pin MS

\*The above connectors can't be used with Intrinsically Safe

Mounting Threads 01 - 1/4-28" UNF Female 02 - 1/4-28" 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

