# **HS-104T Low Power Accelerometer**

AC acceleration and temperature output via M12 Connector

## **Key Features**

- Low voltage
- Ultra low power consumption
- Temperature output
- · Customisable features

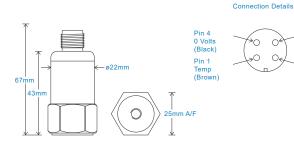
### Industries

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



3.3 volts supply min - output 0°C 2.1 volts

10°C 1.99 volts



### **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 0.3Hz (18cpm) to 10kHz (600kcpm) ± 10% Isolation Base isolated see: 'How To Order' table @ 5V power Range Transverse Sensitivity Less than 5% ±1% Amplitude Linearity Temperature Output 11 mV/°C standard 100°C - Option 150°C

#### Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Weight 125gms (nominal) body only
Screened Cable Assembly HS-AC010 - straight
HS-AC011 - right angle
Mounting Threads see: 'How To Order' table

### Electrical

Electrical Noise < 500μg

Power Requirements 5V nominal
(for other voltages see 'how to order' table

Current Consumption 100μA nominal at 5V supply (60μA at 1.8V)

Bias Voltage 50% of supply voltage

Settling Time 1 second

Output Impedance 100 Ohms max.

Case Isolation >108 Ohms at 500 Volts

### Environmental

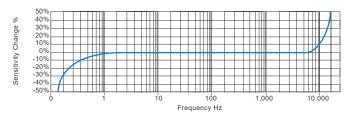
 Operating Temperature Range
 -50 to 125°C

 Sealing
 IP67

 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.)

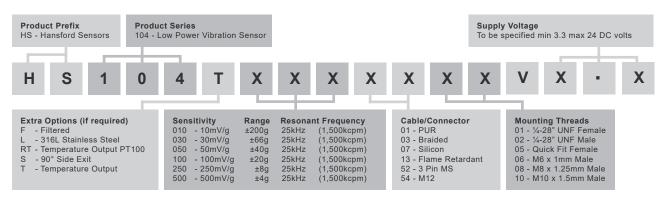


Pin 3

Pin 2

Signal O/P (Blue)

## How To Order





T: 150 210 98804 www.hansfordsensors.com.cn 汉施弗德传感器(上海)有限公司

