# **HS-100S Accelerometer**

# AC acceleration output via Flame Retardant Cable

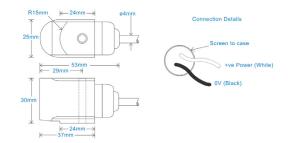
## **Key Features**

- · For use with data collector
- · Side entry for easy access
- · Customisable features

#### 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

Stainless Steel Case Material Sensing Element/Construction PZT/Compression Mountina Torque 8Nm Mounting Bolt provided see: 'How To Order' table x 35mm long Weight 205gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length 5 metres Flame Retardant - length to be specified with order Screened Cable Screened Cable Assembly see: www.hansfordsensors.com for options Connector Mounting Threads see: 'How To Order' table x 30mm long Submersible Depth n/a

### Electrical

 Excitation Voltage:
 18-30Volts DC

 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
 >10^8 Ohms at 500 Volts

### Environmental

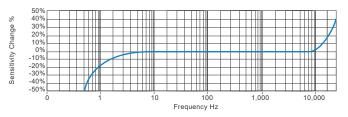
 Operating Temperature Range
 -40 to 100°C

 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

