HS-100FRT Accelerometer

AC acceleration and PT100 temperature output via PUR Cable

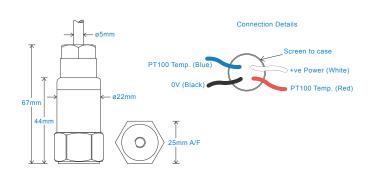
Key Features

- Temperature output PT100
- · Filtered output
- · Waterproof and resistant to oil

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 1.5Hz (90cpm) to 10kHz (600kcpm) ± 5% Frequency Response 0.5Hz (30cpm) to 12kHz (720kcpm) ± 10% $0.2Hz (12cpm) to 15kHz (900kcpm) \pm 3dB$ Isolation Base isolated see: 'How To Order' table Range Temperature Output PT100 (100 Ohms) Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 8Nm Weight 125gms (nominal) Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max (10 bar)

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

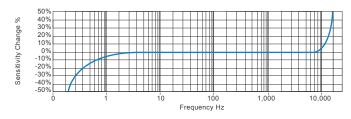
 Operating Temperature Range
 -30 to 90°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



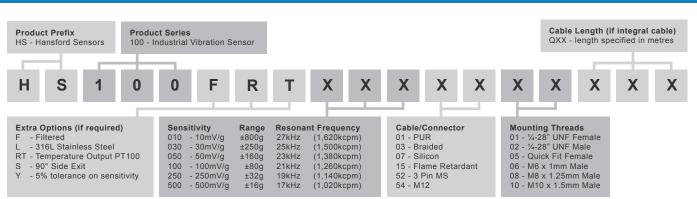
Applications

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





www.hansfordsensors.com sales@hansfordsensors.com

