# **HS-170ST Premium Accelerometer**

AC acceleration and temperature output via M12 Connector

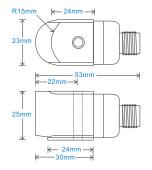
## **Key Features**

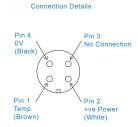
- · Compact and premium design
- · Temperature output
- · Side entry for easy access

#### 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 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Temperature Output 10 mV/°C standard 100°C - Option 150°C Transverse Sensitivity Less than 5%

#### Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8 Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Connector Use booted connector only
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
 1 second

 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

## Environmental

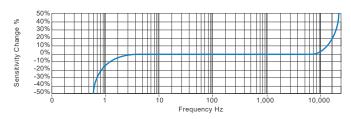
 Operating Temperature Range
 -55 to 150°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

### Typical Frequency Response (at 100mV/g)



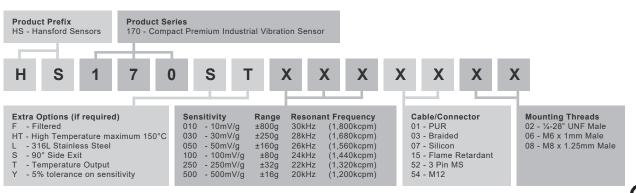
#### **Applications**

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.)



### How To Order





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