# HS-170 Premium Accelerometer

AC acceleration output via Flame Retardant Cable

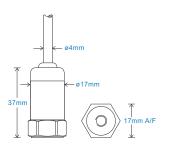
## **Key Features**

- · Compact design
- Premium design
- · 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 14kHz (840kcpm) ± 5%
1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation Base isolated
Range see: 'How To Order' table
Transverse Sensitivity Less than 5%

## Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Weight 52gms (nominal) body only
Maximum Cable Length
Standard Cable Length
Screened Cable Flame Retardant - length to be specified with order
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

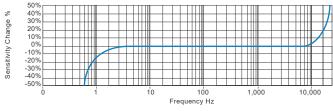
 Operating Temperature Range
 -40 to 100°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

# Typical Frequency Response (at 100mV/g)



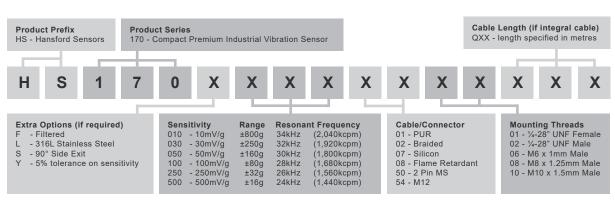
#### **Applications**

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





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