# **HS-420S Accelerometer**

# 4-20mA velocity output via FEP Cable with Protective Conduit

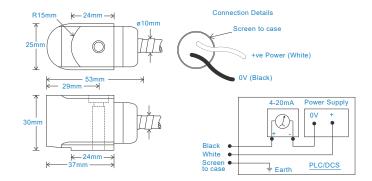
### **Key Features**

- · For use with PLC/DCS systems
- · Side entry for easy access
- Protective Conduit

#### Industries

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





# **Technical Performance**

Mounted Base Resonance 5kHz min

Velocity Ranges see: 'How To Order' table ±10%

Nominal 80Hz at 22°C

Frequency Response 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816

Isolation Base isolated

Range 50g peak

Transverse Sensitivity Less than 5%

#### Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque Weight 150gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length 5 metres Mounting Threads see: 'How To Order' table Conduit Material 304 Stainless Steel Conduit Length Conduit Length is approx. 0.5m shorter than the cable Maximum Conduit Length: 30m

#### Electrical

Current Output

4-20mA DC proportional to Velocity Range
Supply Voltage

15-30 Volts DC (for 4-20mA)
Settling Time

2 seconds
Output Impedance
Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation

>10<sup>8</sup> Ohms at 500 Volts

#### Environmental

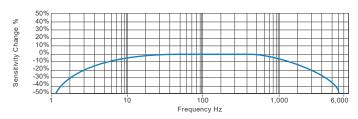
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

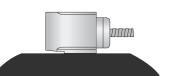
# Typical Frequency Response



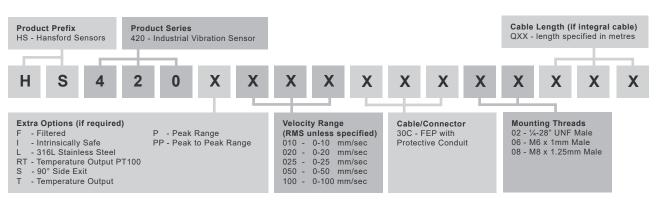
#### **Applications**

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

