HS-421 Accelerometer

4-20mA velocity and AC acceleration output via M12 Connector

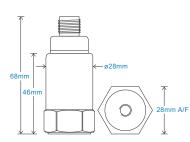
Key Features

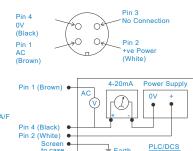
- Unique output
- For use with PLC/DCS systems and data collectors
- · Customisable features

Industries

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







Connection Details

Technical Performance

Frequency Response: AC

Mounted Base Resonance 5kHz min Velocity Ranges see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C Frequency Response: 4-20mA 10Hz (600cpm) to 1kHz (60kcpm) \pm 5% - ISO10816

2Hz (120cpm) to 10kHz (600kcpm) ± 5%

- ISO10816

Isolation Base isolated Range see: 'How To Order' table Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Compression
Mounting Torque 8Nm
Weight 150gms (nominal) body only
Screened Cable Assembly HS-AC010 - straight
HS-AC011 - right angle
Mounting Threads see: 'How To Order' table

Electrical

Outputs

4-20mA DC current proportional to Range and AC acceleration
Bias Voltage

3 Volts DC (nominal)
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

>108 Ohms at 500 Volts

Environmental

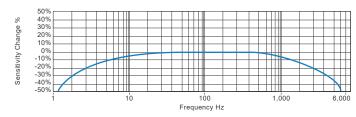
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (4-20mA signal)



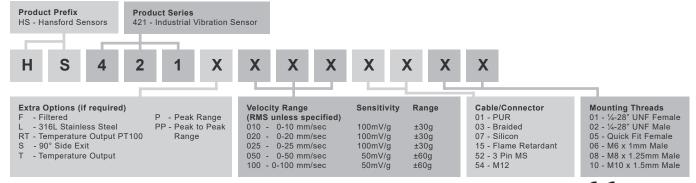
Applications

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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