HS-421S Accelerometer

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

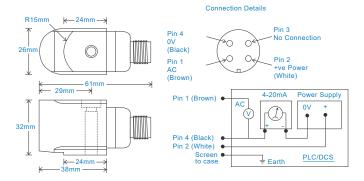
Key Features

- Unique output
- For use with PLC/DCS systems and data collectors
- · Side entry for easy access

Industries

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





Technical Performance

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

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
Mounting Bolt Provided see: 'How To Order' table x 35mm long
Weight 185gms (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
1 second
Output Impedance
Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation
>108 Ohms at 500 Volts

Environmental

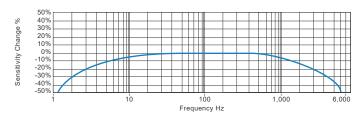
 Operating Temperature Range
 -25 to 120°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (4-20mA signal)



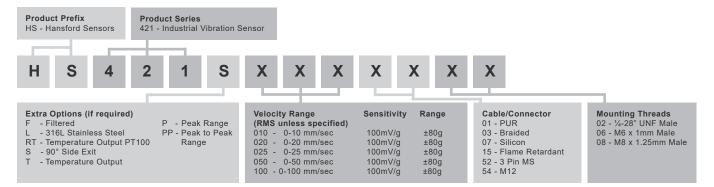
Applications

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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