HS-422ST Accelerometer

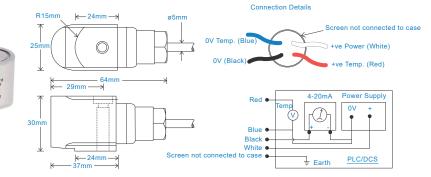
4-20mA acceleration and temperature output via PUR Cable

Key Features

- Temperature output
- · Waterproof
- · Resistant to oil

Industries

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



Technical Performance

Mounted Base Resonance 10kHz min
Acceleration Ranges see: 'How To Order' table ±10%
Nominal 80Hz at 22°C
Frequency Response 10Hz (600cpm) to 5kHz (300kcpm) ± 5%
- ISO10816
Isolation Base isolated
Range see: 'How To Order' table
Temperature Output 10mV/°C - 0-1V proportional to 0-100°C (to convert this to 4-20mA use the HS-540 module)

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 185gms (nominal) Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max. (10 bar)

Electrical

Transverse Sensitivity

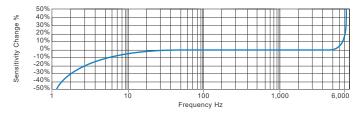
Current Output 4-20mA DC proportional to acceleration Supply Voltage 15-30 Volts DC (for 4-20mA) Settling Time 1 second Output Impedance Loop Resistance 600 Ohms max. at 24 Volts Case Isolation >108 Ohms at 500 Volts

Environmental

Less than 5%

Operating Temperature Range	-25 to 90°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

Typical Frequency Response



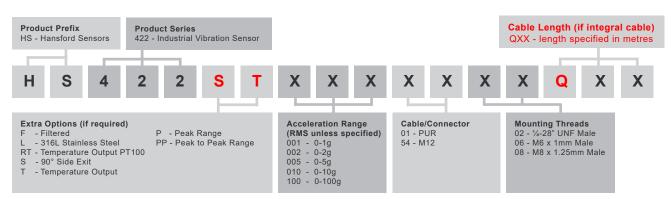
Applications

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.)



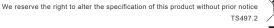
How To Order





www.hansfordsensors.com sales@hansfordsensors.com





HS-422ST Accelerometer

4-20mA acceleration and temperature output via M12 Connector

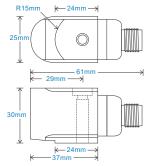
Key Features

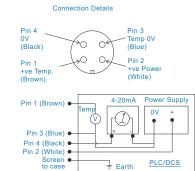
- · 4-20mA acceleration output
- Temperature output
- · Side entry for easy access

Industries

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







Technical Performance

Mounted Base Resonance 10kHz min
Acceleration Ranges see: 'How To Order' table ±10%
Nominal 80Hz at 22°C
Frequency Response 10Hz (600cpm) to 5kHz (300kcpm) ± 5%
- ISO10816
Isolation Base isolated
Range see: 'How To Order' table
Temperature Output 10mV/°C - 0-1V proportional to 0-100°C (to convert this to 4-20mA use the HS-540 module)

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 30mm long
Weight 185gms (nominal)
Screened Cable Assembly HS-AC010 - straight
HS-AC011 - right angle
Mounting Threads see: 'How To Order' table

Electrical

Current Output

4-20mA DC proportional to acceleration

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

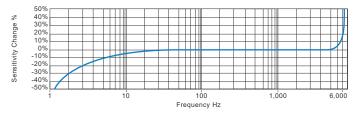
 Operating Temperature Range
 -25 to 90°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

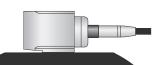
Typical Frequency Response



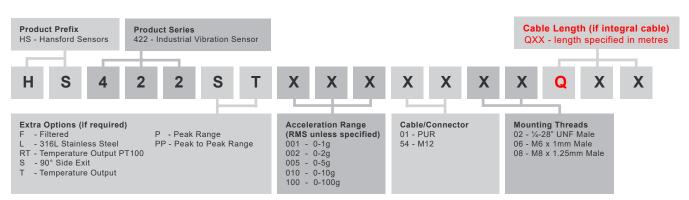
Applications

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How To Order





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