

HS-420S Accelerometer

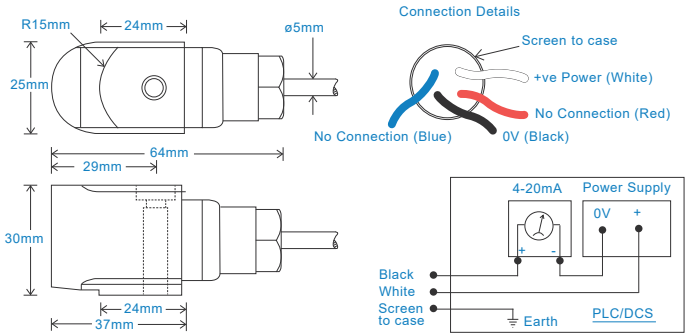
4-20mA velocity output via PUR Cable

Key Features

- Waterproof
- Resistant to oil
- Side entry for easy access

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 $\pm 10\%$ Nominal 80Hz at 22°C |
| Frequency Response | 10Hz (600cpm) to 1kHz (60kcpm) $\pm 5\%$ - ISO10816 |
| Isolation | Base isolated |
| Range | 50g peak |
| 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) body only |
| 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) |

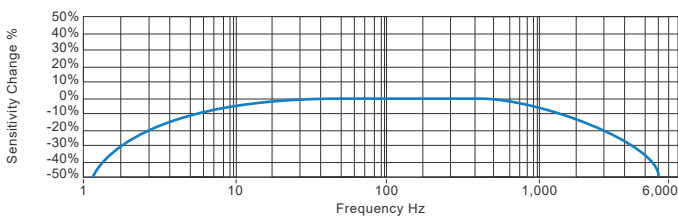
Electrical

| | |
|------------------|---|
| Current Output | 4-20mA DC proportional to Velocity Range |
| 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 | $>10^8$ Ohms at 500 Volts |

Environmental

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

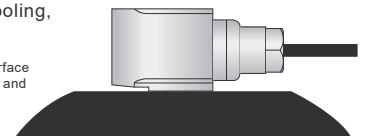
Typical Frequency Response



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

| | | | | | | | | | | | | | | |
|--|--|---|---|---|--|---|--|---|---|---|---|---|---|---|
| Product Prefix HS - Hansford Sensors | Product Series 420 - Industrial Vibration Sensor | Cable Length (if integral cable) QXX - length specified in metres | | | | | | | | | | | | |
| H | S | 4 | 2 | 0 | S | X | X | X | X | X | X | X | X | X |
| Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output | | | | | Peak Range P - Peak Range PP - Peak to Peak Range | | Velocity Range (RMS unless specified) 010 - 0-10 mm/sec 020 - 0-20 mm/sec 025 - 0-25 mm/sec 050 - 0-50 mm/sec 100 - 0-100 mm/sec | | | Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12 | | Mounting Threads 02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male | | |



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