HS-421S Accelerometer 4-20mA velocity and AC acceleration output via Silicon Cable

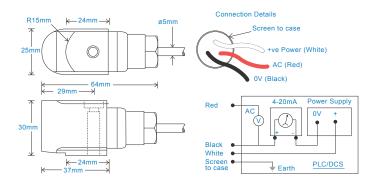
Key Features

- Unique output
- For use with PLC/DCS systems
- and data collectors • Waterproof
- waterproof

Industries

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





Technical Performance

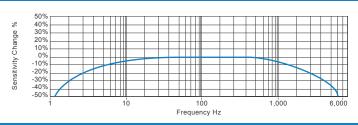
| Mounted Base Resona | ince 5kHz min |
|------------------------|--|
| Velocity Ranges | see: 'How To Order' table ±10% |
| | Nominal 80Hz at 22°C |
| Frequency Response | 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816 |
| Isolation | Base isolated |
| Range | see: 'How To Order' table |
| Transverse Sensitivity | Less than 5% |
| | |

| Case Material | Stainless Steel |
|------------------------------|---|
| Sensing Element/Construction | on PZT/Shear |
| Mounting Torque | 8Nm |
| Mounting Bolt Provided | see: 'How To Order' table x 35mm long |
| Weight | 185gms (nominal) |
| Maximum Cable Length | 1000 metres |
| Standard Cable Length | 5 metres |
| Screened Cable | Silicon - length to be specified with order |
| Mounting Threads | see: 'How To Order' table |
| Submersible Depth | 100 metres max (10 bar) |
| | |

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 | >10 ⁸ Ohms at 500 Volts |

Typical Frequency Response



Applications

Environmental

Sealing Maximum Shock

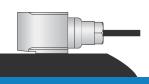
EMC

Operating Temperature Range

Mechanical

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.)



-25 to 90°C

EN61326-1:2013

IP68

5000g

How To Order

| Product Prefix Product Series S - Hansford Sensors 421 - Industrial Vibration Sensor | | | | | | | Cable Length (if integral cable) QXX - length specified in metres | | | | | |
|---|----------------------|----------------------------------|---|---|--|---|--|----------------|-------------------------------|--------------------------------------|---|--|
| H S 4 | 2 1 | S | X | X | X | X | X | X | X | X | X | x |
| Extra Options (if require F - Filtered L - 316L Stainless Steel RT - Temperature Output S - 90° Side Exit T - Temperature Output | , P - P PP - P | eak Range eak to Peak ange | (RMS) 010 - 020 - 025 - 050 - | ty Range unless sp 0-10 mm 0-20 mm 0-25 mm 0-50 mm 0-100 mm | Decified) n/sec n/sec n/sec n/sec | Sensitiv 25mV/ 25mV/ 25mV/ 25mV/ 25mV/ | g ±8 g ±8 g ±8 g ±8 | 0g 0g 0g | 01 - Pl 03 - Br 07 - Si | aided licon ame Reta Pin MS | | Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male |



www.hansfordsensors.com sales@hansfordsensors.com



We reserve the right to alter the specification of this product without prior notice $$\mathsf{TS325.6}$$