

HS-422T Accelerometer

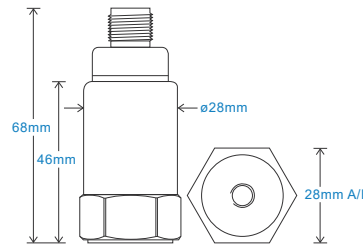
4-20mA acceleration and temperature output via M12 Connector

Key Features

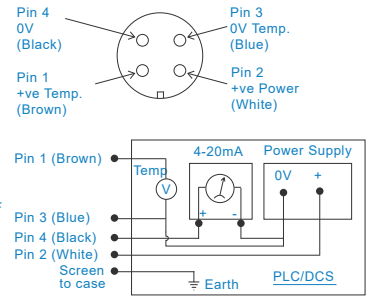
- 4-20mA acceleration output
- For use with PLC/DCS systems
- Temperature output

Industries

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



Connection Details



Technical Performance

| | |
|------------------------|--|
| Mounted Base Resonance | 10kHz min |
| Acceleration Ranges | see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C |
| Frequency Response | 10Hz (600cpm) to 5kHz (300kcpm) $\pm 5\%$ - 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/Compression |
| Mounting Torque | 8Nm |
| Weight | 150gms (nominal) |
| Screened Cable Assembly | HS-AC010 - straight HS-AC011 - right angle |
| Mounting Threads | see: 'How To Order' table |

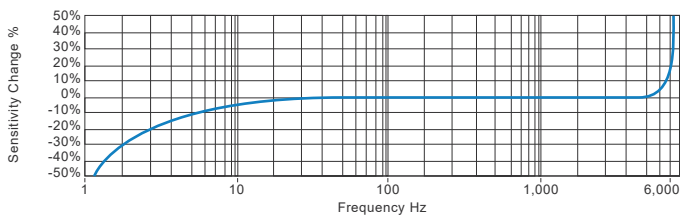
Electrical

| | |
|------------------|---|
| Current Output | 4-20mA DC proportional to acceleration |
| Supply Voltage | 15-30 Volts DC (for 4-20mA) |
| Settling Time | 2 seconds |
| 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 | IP67 |
| Maximum Shock | 5000g |
| EMC | EN61326-1:2013 |

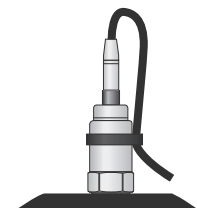
Typical Frequency Response



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 422 - Industrial Vibration Sensor | Cable Length (if integral cable) QXX - length specified in metres | | | | | | | | | | | | | |
| H | S | 4 | 2 | 2 | T | X | X | X | X | X | X | X | X | X | |
| Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit T - Temperature Output | | | | | P - Peak Range PP - Peak to Peak Range | | | Acceleration Range (RMS unless specified) 001 - 0-1g 002 - 0-2g 005 - 0-5g 010 - 0-10g 100 - 0-100g | | | Cable/Connector 01 - PUR 54 - M12 | | Mounting Threads 01 - 1/4-28" UNF Female 02 - 1/4-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male | | |



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