

HS-150T Premium Accelerometer

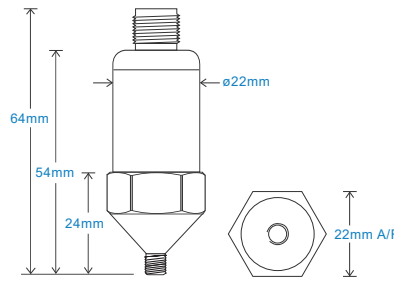
AC acceleration and temperature output via M12 Connector with Conical Mounting

Key Features

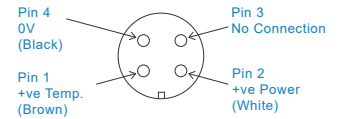
- Temperature output
- Premium design
- M8 Conical Mounting

Industries

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



Connection Details



Technical Performance

| | |
|------------------------|--|
| Mounted Base Resonance | see 'How To Order' table (nominal) |
| Sensitivity | see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C |
| Frequency Response | 1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$ 0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$ |
| Isolation | Base isolated |
| Range | see: 'How To Order' table |
| Temperature Output | 10 mV/°C standard 100°C - Option 150°C |
| Transverse Sensitivity | Less than 5% |

Mechanical

| | |
|------------------------------|---|
| Case Material | Stainless Steel |
| Sensing Element/Construction | PZT/Shear |
| Mounting Torque | 8 Nm |
| Weight | 140gms (nominal) body only |
| Screened Cable Assembly | HS-AC010 - straight HS-AC011 - right angle |
| Mounting Threads | M8 Conical Base |

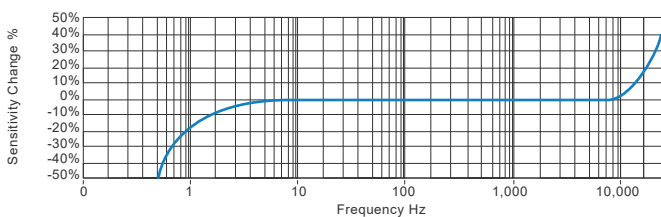
Electrical

| | |
|---------------------|---------------------------|
| Excitation Voltage: | 18-30Volts DC |
| Electrical Noise | 0.1mg max |
| Current Range | 0.5mA to 8mA |
| Bias Voltage | 10 - 12 Volts DC |
| Settling Time | 1 second |
| Output Impedance | 200 Ohms max. |
| Case Isolation | $>10^8$ Ohms at 500 Volts |

Environmental

| | |
|-----------------------------|----------------|
| Operating Temperature Range | -55 to 150°C |
| Sealing | IP67 |
| Maximum Shock | 5000g |
| EMC | EN61326-1:2013 |

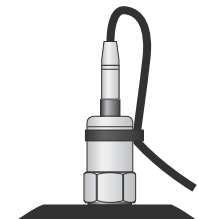
Typical Frequency Response (at 100mV/g)



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 150 - Premium Industrial Vibration Sensor | | | | | | | | | | |
| H S 1 5 0 T X X X X X X X | | | | | | | | | | | |
| Extra Options (if required) F - Filtered HT - High Temperature maximum 150°C L - 316L Stainless Steel T - Temperature Output Y - 5% tolerance on sensitivity | Sensitivity 010 - 10mV/g $\pm 80\text{g}$ 030 - 30mV/g $\pm 25\text{g}$ 050 - 50mV/g $\pm 16\text{g}$ 100 - 100mV/g $\pm 8\text{g}$ 250 - 250mV/g $\pm 32\text{g}$ 500 - 500mV/g $\pm 16\text{g}$ | Range $\pm 80\text{g}$ $\pm 25\text{g}$ $\pm 16\text{g}$ $\pm 8\text{g}$ $\pm 32\text{g}$ $\pm 16\text{g}$ | Resonant Frequency 34kHz (2,040kcpm) 33kHz (1,980kcpm) 32kHz (1,920kcpm) 30kHz (1,800kcpm) 28kHz (1,680kcpm) 26kHz (1,560kcpm) | Cable/Connector 50 - 2 Pin MS 54 - M12 | Mounting Threads 19 - M8 Conical Base | | | | | | |



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We reserve the right to alter the specification of this product without prior notice

TS1122.3

