

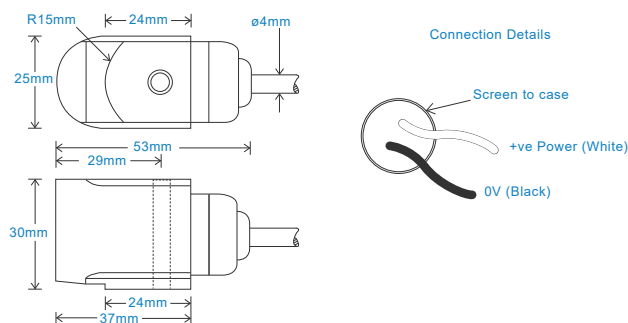
AC acceleration output via Braided Cable

Key Features

- Premium design
- Side entry for easy access
- Customisable features

Industries

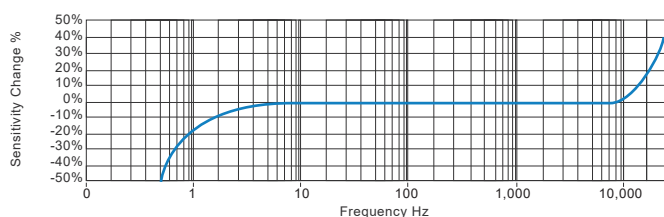
Building services, Pulp and Paper,
Mining, Metals, Utilities, Automotive,
Water, Pharmaceutical



| Technical Performance | | Mechanical | |
|------------------------|---|------------------------------|---|
| Mounted Base Resonance | see 'How To Order' table (nominal) | Case Material | Stainless Steel |
| Sensitivity | see: 'How To Order' table $\pm 10\%$ | Sensing Element/Construction | PZT/Shear |
| | Nominal 80Hz at 22°C | Mounting Torque | 8Nm |
| Frequency Response | 1.5Hz (90cpm) to 10kHz (600kcpm) $\pm 5\%$ | Mounting Bolt provided | see: 'How To Order' table x 35mm long |
| | 0.5Hz (30cpm) to 12kHz (720kcpm) $\pm 10\%$ | Weight | 205gms (nominal) body only |
| | 0.2Hz (12cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$ | Maximum Cable Length | 1000 metres |
| Isolation | Base isolated | Standard Cable Length | 5 metres |
| Range | see: 'How To Order' table | Screened Cable | Braided - length to be specified with order |
| Transverse Sensitivity | Less than 5% | Mounting Threads | see: 'How To Order' table |

| Electrical | | Environmental | |
|---------------------|------------------------------------|-----------------------------|----------------|
| Excitation Voltage: | 18-30Volts DC | Operating Temperature Range | -55 to 150°C |
| Electrical Noise | 0.1mg max | Sealing | IP65 |
| Current Range | 0.5mA to 8mA | Maximum Shock | 5000g |
| Bias Voltage | 10 - 12 Volts DC | EMC | EN61326-1:2013 |
| Settling Time | 2 seconds | | |
| Output Impedance | 200 Ohms max. | | |
| Case Isolation | >10 ⁸ Ohms at 500 Volts | | |

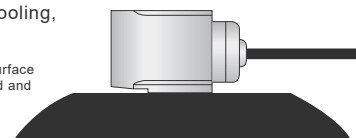
Typical Frequency Response (at 100mV/g)



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 | | | | | | Cable Length (if integral cable) QXX - length specified in metres | | | | | | | |
|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|--|
| H | S | 1 | 5 | 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 Y - 5% tolerance on sensitivity | | Sensitivity 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g | | | | | | Range ±800g ±250g ±160g ±80g ±32g ±16g | | Resonant Frequency 34kHz (2,040kcpm) 33kHz (1,980kcpm) 32kHz (1,920kcpm) 30kHz (1,800kcpm) 28kHz (1,680kcpm) 26kHz (1,560kcpm) | | Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12 | | Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male | |



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

TS271.8

