HS-105 High Temp. Accelerometer

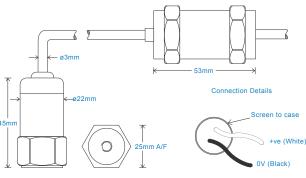
Key Features

- Includes external charge amplifier
- Optional temperature ranges
- · Low noise cable

Industries

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





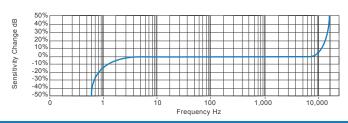
Technical Performance

| Mounted Base Resonance | see 'How To Order' table (nominal) | С |
|------------------------|--|---|
| Sensitivity | see: 'How To Order' table ±10% | S |
| | Nominal 80Hz at 22°C | N |
| Frequency Response | 2Hz (120cpm) to 10kHz (600kcpm) ± 5% | V |
| | 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% | N |
| | 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB | С |
| Isolation | Base isolated | |
| Range | see: 'How To Order' table | N |
| Transverse Sensitivity | Less than 5% | |
| | | |

| Case Mate | erial | Stainless Steel |
|-----------------------|---------------------|--|
| Sensing E | lement/Construction | PZT/Compression |
| Mounting ⁻ | Torque | 8Nm |
| Weight | | 125gms (nominal) |
| Maximum | Cable Length | 1000 metres |
| Cable | | see: 'How To Order' table - (20 metres |
| | | max between sensor and charge amplifier) |
| Mounting ⁻ | Threads | see: 'How To Order' table |
| | | |

| Electrical | | Environmental | |
|------------------|------------------------------------|-----------------------------|----------------------------------|
| Electrical Noise | 0.1mg max | Operating Temperature Range | min -55 °C |
| Current Range | 0.5mA to 8mA | | see 'How To Order' table for max |
| Bias Voltage | 10 - 12 Volts DC | Sealing | IP67 |
| Settling Time | 2 seconds | Maximum Shock | 5000g |
| Output Impedance | 200 Ohms max. | EMC | EN61326-1:2013 |
| Case Isolation | >10 ⁸ Ohms at 500 Volts | | |

Typical Frequency Response (at 100mV/g)



Applications

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.)



How To Order

| Product Prefix HS - Hansford Sensors | Product Series 105 - Industrial Vibration Sensor | | | | Cable Length (if integral cable) QXX/XX - length before/after charge amp, specified in metres | | | | | | | | |
|--|---|-----|---|--|--|---|------------------------|---|---|---|--|---|---|
| H S 1 | 0 5 | X X | X | X | X | X | X | X | x | X | X | X | X |
| Extra Options (if required) Y - 5% tolerance on sensil S - 90° Side Exit T - Temperature Output I - Intrinsically Safe RT - Temperature Output P1 | ivity 010 - 1 030 - 3 050 - 5 100 - 1 100 250 - 2 | | 28kHz 26kHz 24kHz 22kHz 20kHz | ant Freque (1,680kc (1,560kc (1,440kc (1,320kc (1,200kc (1,080kc | :pm) :pm) :pm) :pm) :pm) | | w Noise (w Noise (| | 01 - 1/4 02 - 1/4 05 - Qu 06 - M 08 - M | ing Thread 28" UNF F 28" UNF M uick Fit Fer 6 x 1mm M 8 x 1.25mr 10 x 1.5mr | ^E emale Male male lale n Male | | |



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We reserve the right to alter the specification of this product without prior notice TS014.4