HS-104S Low Power Accelerometer

AC acceleration output via M12 Connector

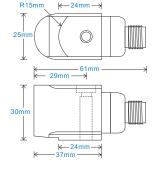
Key Features

- Low voltage
- Ultra low power consumption
- Side entry for easy access

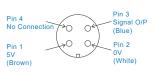
Industries

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





Connection Details



Technical Performance

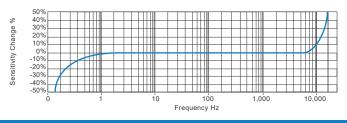
| Mounted Base Resonance | see 'How To Order' table (nominal) |
|------------------------|--|
| Sensitivity | see: 'How To Order' table ±10% |
| | Nominal 80Hz at 22°C |
| Frequency Response | 0.3Hz (18cpm) to 10kHz (600kcpm) ± 10% |
| Isolation | Base isolated |
| Range | see: 'How To Order' table @ 5V power |
| Transverse Sensitivity | Less than 5% |
| Amplitude Linearity | ±1% |

| Case Material | Stainless Steel |
|------------------------------|---------------------------------------|
| Sensing Element/Construction | PZT/Shear |
| Mounting Torque | 8Nm |
| Mounting Bolt Provided | see: 'How To Order' table x 30mm long |
| Weight | 185gms (nominal) |
| Screened Cable Assembly | HS-AC010 - straight |
| | HS-AC011 - right angle |
| Mounting Threads | see: 'How To Order' table |
| | |

Electrical

| Electrical Noise | < 500µg |
|---------------------|---|
| Power Requirements | 5V nominal (other voltages 1.8 to 24V on request) |
| Current Consumption | 100μA nominal at 5V supply (60μA at 1.8V) |
| Bias Voltage | 50% of supply voltage |
| Settling Time | 1 second |
| Output Impedance | 100 Ohms max. |
| Case Isolation | >10 ⁸ Ohms at 500 Volts |

Typical Frequency Response (at 100mV/g)



Applications

Environmental

Sealing Maximum Shock

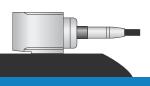
EMC

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.)



-50 to 125°C

EN61326-1:2013

IP67

5000g

How To Order

| Product Prefix Product Series HS - Hansford Sensors 104 - Low Power Vibration Sensor | | | | | | | | | | |
|---|-----|--|--|--|---|--------------------------------------|--|---------------------------------------|---|---|
| H S 1 | 0 4 | S | X | X | X | X | X | X | X | |
| Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT1 S - 90° Side Exit T - Temperature Output | 01 | 30mV/g 50mV/g 100mV/g 250mV/g | Range ±200g ±66g ±40g ±20g ±8g ±4g | Resona 25kHz 25kHz 25kHz 25kHz 25kHz 25kHz | nt Freque (1,500kg (1,500kg (1,500kg (1,500kg (1,500kg (1,500kg (1,500kg | opm) opm) opm) opm) opm) | 01 - PI 03 - Bi 07 - Si 13 - FI | aided licon ame Retar Pin MS | - | Mounting Thre 02 - ¼-28" UNF 06 - M6 x 1mm 08 - M8 x 1.25m |



www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice TS391.7

