HS-100F Accelerometer

AC acceleration output via Braided Cable

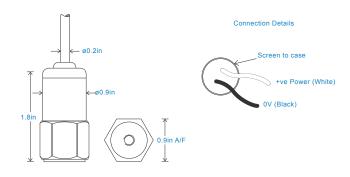
Key Features

- Most common seller
- For use with data collector
- Customizable features

Industries

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





Technical Performance

| Mounted Base Resonance | e see 'How To Order' table (nominal) | С |
|------------------------|--|---|
| Sensitivity | see: 'How To Order' table ±10% | S |
| | Nominal 80Hz at 72°F | M |
| Frequency Response | 90cpm (1.5Hz) to 600kcpm (10kHz) ± 5% | V |
| | 30cpm (0.5Hz) to 720kcpm (12kHz) ± 10% | M |
| | 12cpm (0.2Hz) to 900kcpm (15kHz) ± 3dB | S |
| Isolation | Base isolated | S |
| Range | see: 'How To Order' table | M |
| Transverse Sensitivity | Less than 5% | |
| | | |

| Case Material | Stainless Steel |
|------------------------------|---|
| Sensing Element/Construction | PZT/Compression |
| Mounting Torque | 8Nm |
| Weight | 106gms (nominal) body only |
| Maximum Cable Length | 1000 metres |
| Standard Cable Length | 5 metres |
| Shielded Cable | Braided - length to be specified with order |
| Mounting Threads | see: 'How To Order' table |
| | |

| 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 | 2 seconds |
| Output Impedance | 200 Ohms max. |
| Case Isolation | >10 ⁸ Ohms at 500 Volts |

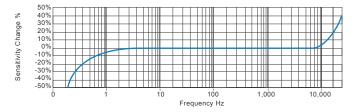
Environmental Operating Temperature Range

Mechanical

| operating | remperature | Range |
|-----------|-------------|-------|
| Sealing | | |
| Maximum | Shock | |
| EMC | | |
| | | |

| -6 | 7 to | 284° | F |
|-------|------|-------|---|
| | | IP6 | 5 |
| | | 5000 | g |
| EN613 | 26- | 1:201 | 3 |

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 PrefixProduct SeriesHS - Hansford Sensors100 - Industrial Vibration Sensor | | | | | | | | Length length spe | cified in fe | eet |
|--|---------------|---|--|--|----------------------------------|------------------------------------|---|---|--|--|
| H S 1 | 0 0 F | X | x x | X | X | X | X | X | x | X |
| Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT10 T - Temperature Output Y - 5% tolerance on sensitivi | 250 - 250mV/g | ±800g 1 ±250g 1 ±160g 1 ±80g 1 ±32g 1 | 1,560kcpm (2 1,440kcpm (2 1,320kcpm (2 1,200kcpm (2 | Jency (88kHz) (66kHz) (44kHz) (28kHz) (06kHz) (86kHz) | 01 - PU 02 - Bra 07 - Sili | iided con me Retare in MS | | 01 - ¼- 02 - ¼- 05 - Qu 06 - M6 08 - M8 | ng Threa 28" UNF I 28" UNF I nick Fit Fe 3 x 1mm M 3 x 1.25mr 0 x 1.5mr | Female Male male Male m Male |



www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice \$\$T\$\$1250.5

