

HS-100S Accelerometer

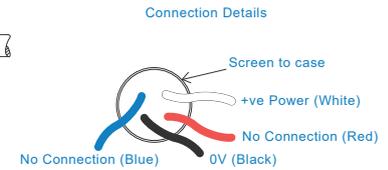
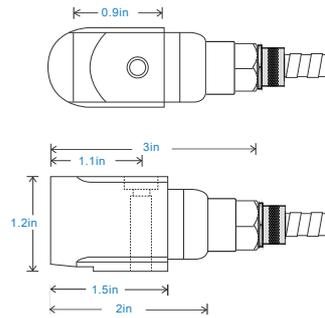
AC acceleration output via 4 Core PUR Cable with Removable Stainless Steel Conduit

Key Features

- Waterproof to IP68
- Side entry for easy access
- Removable Conduit

Industries

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



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10% Nominal 80Hz at 72°F
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) ± 5% 90cpm (1.5Hz) to 720kcpm (12kHz) ± 10% 48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Mounting Bolt provided	see: 'How To Order' table x 1.2in long
Weight	6.5 oz. (nominal) body only
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Screened Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table

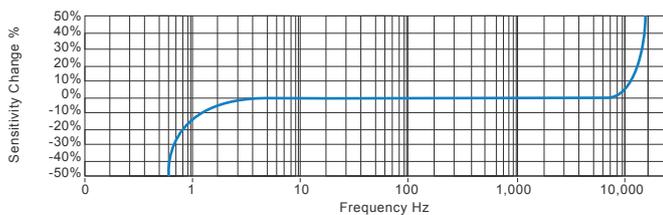
Electrical

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	-22 to 194°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

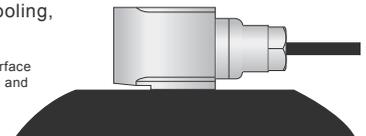
Typical Frequency Response (at 100mV/g)



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 100 - Industrial Vibration Sensor	Cable Length QXX - length specified in metres												
H	S	1	0	0	S	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		Sensitivity 010 - 10mV/g ±800g 030 - 30mV/g ±250g 050 - 50mV/g ±160g 100 - 100mV/g ±80g 250 - 250mV/g ±32g 500 - 500mV/g ±16g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resonant Frequency 27kHz (1,620kcpm) 25kHz (1,500kcpm) 23kHz (1,380kcpm) 21kHz (1,260kcpm) 19kHz (1,140kcpm) 17kHz (1,020kcpm)	Cable/Connector 34 - 4 Core PUR Cable with removable Stainless Steel Conduit 35 - 3 Core Silicon Cable with removable Stainless Steel Conduit	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
TS928U.1

