

HS-100 Accelerometer

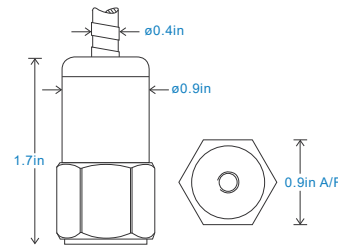
AC acceleration output via FEP Cable with Protective Conduit

Key Features

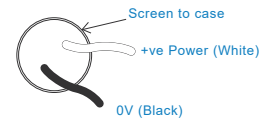
- Resistant to oil
- Protective Conduit

Industries

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



Connection Details



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$
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
Weight	see: 'How To Order' table x 1.2in long
Shielded Cable Assembly	6.5 oz. (nominal) body only
Maximum Cable Lengths	3,280ft
Standard Cable Lengths	16ft
Mounting Threads	see 'How To Order' Table
Conduit Material	316 Stainless Steel
Conduit Length	Conduit Length is approx. 1.6ft shorter than the cable Maximum Conduit Length: 98 ft.

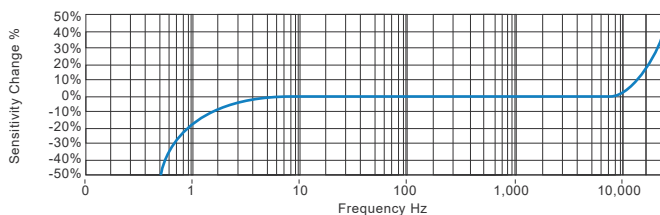
Electrical

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	-67 to 284°F
Sealing	IP65
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	Product Series											
HS - Hansford Sensors	100 - Industrial Vibration Sensor											
H	S	1	0	0	X	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads		
F - Filtered		010 - 10mV/g		$\pm 800\text{g}$		2,040kcpm (34kHz)		30C - FEP with		01 - 1/4-28" UNF Female		
I - Intrinsically Safe		030 - 30mV/g		$\pm 250\text{g}$		1,980kcpm (33kHz)		Protective Conduit		02 - 1/4-28" UNF Male		
L - 316L Stainless Steel		050 - 50mV/g		$\pm 160\text{g}$		1,920kcpm (32kHz)				05 - Quick Fit Female		
RT - Temperature Output PT100		100 - 100mV/g		$\pm 80\text{g}$		1,800kcpm (30kHz)				06 - M6 x 1mm Male		
T - Temperature Output		250 - 250mV/g		$\pm 32\text{g}$		1,680kcpm (28kHz)				08 - M8 x 1.25mm Male		
Y - 5% tolerance on sensitivity		500 - 500mV/g		$\pm 16\text{g}$		1,560kcpm (26kHz)				10 - M10 x 1.5mm Male		



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

TS783U.4

