HS-105S High Temp. Accelerometer

Key Features

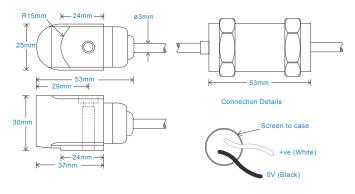
· Includes external charge amplifier Optional temperature ranges

· Low noise cable

Industries

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

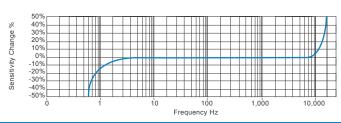




Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt Provided	see: 'How To Order' table x 35mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	185gms (nominal)
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Cable	see: 'How To Order' table - (20 metres
Range	see: 'How To Order' table		max between sensor and charge amplifier)
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical	Environmental			
Electrical Noise	0.1mg max	Operating Temperature Range		
Current Range	0.5mA to 8mA	Sealing		
Bias Voltage	10 - 12 Volts DC	Maximum Shock		
Settling Time	2 seconds	EMC		
Output Impedance	200 Ohms max.			
Case Isolation	>10 ⁸ Ohms at 500 Volts			

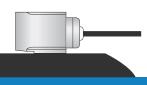
Typical Frequency Response (at 100mV/g)



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.)



-55°C to see 'How To Order' table for max

IP67

5000g

EN61326-1:2013

How To Order

Product Prefix HS - Hansford Sensors	Product Series 105 - Industrial Vibratio	n Sensor							f integral before/at		e amp, spe	cified in m	etres
H S 1	0 5 S	X	X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) I Intrinsically Safe RT - Temperature Output P1 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensit	010 - 10mV/ 100 030 - 30mV/ 050 - 50mV/ 100 - 100mV	±250g ±160g /g ±80g /g ±32g	Resona 27kHz 25kHz 23kHz 21kHz 19kHz 17kHz	ant Freque (1,620kg (1,500kg (1,380kg (1,260kg (1,140kg (1,020kg	spm) spm) spm) spm) spm)		ow Noise (ow Noise (02 - ¼ 06 - M	ting Threa 28" UNF 6 x 1mm M 8 x 1.25m	Male Male		



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We reserve the right to alter the specification of this product without prior notice TS123.4