

# HS-100 Accelerometer

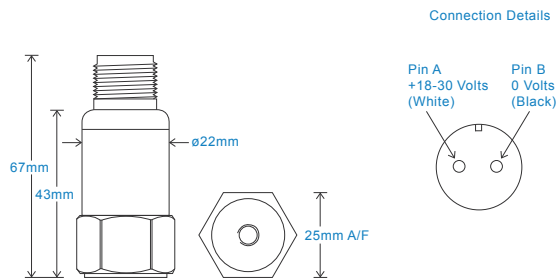
## AC output via 2 Pin MS Connector

### Key Features

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

### 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 $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3dB$
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	8Nm
Weight	125gms (nominal)
Mating Connector	HS-AA004 or Cable Assembly
Mounting Threads	see: 'How To Order' table

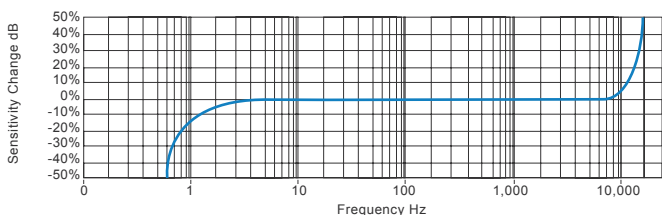
### Electrical

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	-55 to 140°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

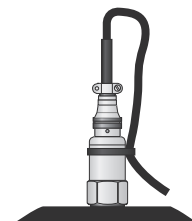
### Typical Frequency Response (at 100mV/g)



### 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	Product Series	Cable Length (if integral cable)												
HS - Hansford Sensors	100 - Industrial Vibration Sensor	QXX - length specified in metres												
H	S	1	0	0	X	X	X	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range	Resonant Frequency		Cable/Connector			Mounting Threads				
Y - 5% tolerance on sensitivity		010 - 10mV/g		$\pm 800g$	28kHz (1,680cpm)		01 - PUR			01 - 1/4-28" UNF Female				
S - 90° Side Exit		030 - 30mV/g		$\pm 250g$	26kHz (1,560cpm)		02 - Braided			02 - 1/4-28" UNF Male				
F - Filtered		050 - 50mV/g		$\pm 160g$	24kHz (1,440cpm)		07 - Silicon			05 - Quick Fit Female				
T - Temperature Output		100 - 100mV/g		$\pm 80g$	22kHz (1,320cpm)		08 - Flame Retardant			06 - M6 x 1mm Male				
I - Intrinsically Safe		250 - 250mV/g		$\pm 32g$	20kHz (1,200cpm)		50 - 2 Pin MS			08 - M8 x 1.25mm Male				
RT - Temperature Output PT100		500 - 500mV/g		$\pm 16g$	18kHz (1,080cpm)		54 - M12			10 - M10 x 1.5mm Male				

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



### Vertriebspartner für Deutschland



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