HS-100 Accelerometer

AC acceleration output via Braided Cable

Key Features

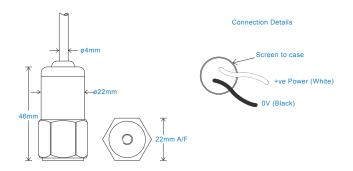
Most common seller

- · For use with data collector
- · Customisable features

Industries

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

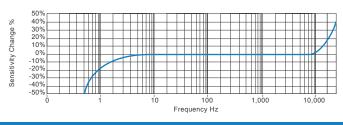




Technical Performance Mechanical Mounted Base Resonance see 'How To Order' table (nominal) Case Material Stainless Steel see: 'How To Order' table ±10% Sensitivity Sensing Element/Construction PZT/Compression Nominal 80Hz at 22°C Mounting Torque 2Hz (120cpm) to 10kHz (600kcpm) ± 5% Frequency Response Weight 106gms (nominal) body only 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% Maximum Cable Length 1000 metres 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB Standard Cable Length 5 metres Isolation Base isolated Screened Cable Braided - length to be specified with order see: 'How To Order' table see: 'How To Order' table Mounting Threads Range Transverse Sensitivity Less than 5%

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

Typical Frequency Response (at 100mV/g)



Environmental

Sealing Maximum Shock EMC

Operating Temperature Range

-55 to 140°C
IP65
5000g
EN61326-1:2013

8Nm

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								Cable Length QXX - length specified in metres					
H S 1	0	0	X	X	X	X	X	X	X	X	Х	X	Х
Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT100 T - Temperature Output Y - 5% tolerance on sensitivity		Sensitivity Range 010 -10mV/g ±800g 030 -30mV/g ±250g 050 -50mV/g ±160g 100 -100mV/g ±80g 250 -50mV/g ±32g 500 -500mV/g ±16g		±250g ±160g ±80g ±32g	Resonant Frequency 34kHz (2,040kcpm) 33kHz (1,980kcpm) 32kHz (1,920kcpm) 30kHz (1,800kcpm) 28kHz (1,680kcpm) 26kHz (1,560kcpm)			Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12			Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male		



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