HS-100S Accelerometer

AC acceleration output via M12 Connector

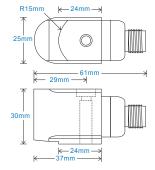
Key Features

- · For use with data collector
- · Side entry for easy access
- Customisable features

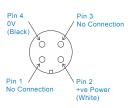


Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Connection Details



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 30mm long					
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	185gms (nominal)					
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Screened Cable Assembly	HS-AC010 - straight					
Isolation	Base isolated		HS-AC011 - right angle					
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table					
Transverse Sensitivity	Less than 5%							

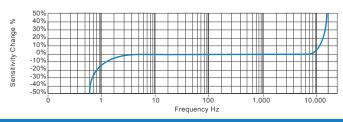
Electrical	
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

Environmental

Operating Temperature Range Sealing Maximum Shock EMC

-55 to	140°C
	IP67
	5000g
EN61326-	1:2013

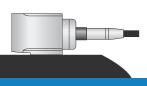
Typical Frequency Response (at 100mV/g)



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 100 - Industrial Vibration				ensor						Cable Length (if integral cable) QXX - length specified in metres			
H S 1	0	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 27kHz 25kHz 23kHz 21kHz 19kHz 17kHz	nt Freque (1,620kg (1,500kg (1,380kg (1,260kg (1,140kg (1,020kg	pm) pm) pm) pm) pm)	01 - PU 02 - Br 07 - Si 08 - Fl	aided licon ame Retar Pin MS		02 - ¼ 06 - M	ing Threa -28" UNF 6 x 1mm M 8 x 1.25m	Male /Iale



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