HS-104S Low Power Accelerometer

AC acceleration output via M12 Connector

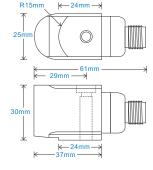
Key Features

- Low voltage
- Ultra low power consumption
- Side entry for easy access

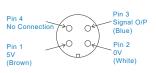
Industries

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





Connection Details



Technical Performance

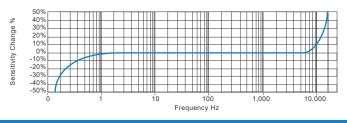
Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table ±10%
	Nominal 80Hz at 22°C
Frequency Response	0.3Hz (18cpm) to 10kHz (600kcpm) ± 10%
Isolation	Base isolated
Range	see: 'How To Order' table @ 5V power
Transverse Sensitivity	Less than 5%
Amplitude Linearity	±1%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	185gms (nominal)
Screened Cable Assembly	HS-AC010 - straight
	HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

Electrical

Electrical Noise	< 500µg
Power Requirements	5V nominal (other voltages 1.8 to 24V on request)
Current Consumption	100μA nominal at 5V supply (60μA at 1.8V)
Bias Voltage	50% of supply voltage
Settling Time	1 second
Output Impedance	100 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

Typical Frequency Response (at 100mV/g)



Applications

Environmental

Sealing Maximum Shock

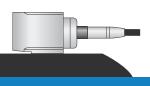
EMC

Operating Temperature Range

Mechanical

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.)



-50 to 125°C

EN61326-1:2013

IP67

5000g

How To Order

Product Prefix Product Series HS - Hansford Sensors 104 - Low Power Vibration Sensor										
H S 1	0 4	S	X	X	X	X	X	X	X	
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT1 S - 90° Side Exit T - Temperature Output	01	 30mV/g 50mV/g 100mV/g 250mV/g 	Range ±200g ±66g ±40g ±20g ±8g ±4g	Resona 25kHz 25kHz 25kHz 25kHz 25kHz 25kHz	nt Freque (1,500kg (1,500kg (1,500kg (1,500kg (1,500kg (1,500kg (1,500kg	opm) opm) opm) opm) opm)	01 - PI 03 - Bi 07 - Si 13 - FI	aided licon ame Retar Pin MS	-	Mounting Thre 02 - ¼-28" UNF 06 - M6 x 1mm 08 - M8 x 1.25m



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We reserve the right to alter the specification of this product without prior notice TS391.7

