

HS-130 Accelerometer

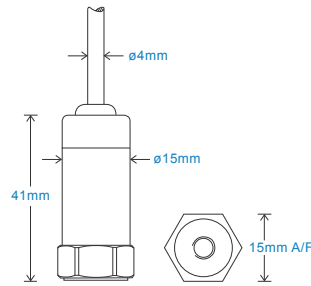
AC acceleration output via Flame Retardant Cable

Key Features

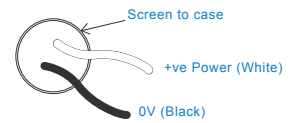
- For use with data collector
- Compact design
- Customisable features

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 $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 16kHz (960kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 19kHz (1,140kcpm) $\pm 3\text{dB}$
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	30gms (nominal)
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	Flame Retardant - length to be specified with order
Mounting Threads	see: 'How To Order' table

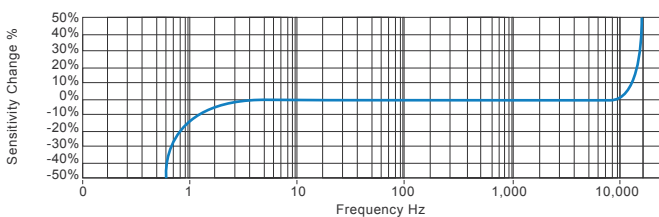
Electrical

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	$>10^9$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-40 to 100°C
Sealing	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

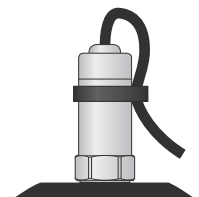
Typical Frequency Response (at 100mV/g)



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	130 - Industrial Vibration Sensor	QXX - length specified in metres																					
H	S	1	3	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	030 - 30mV/g	050 - 50mV/g	100 - 100mV/g	250 - 250mV/g	500 - 500mV/g	$\pm 800\text{g}$	$\pm 250\text{g}$	$\pm 160\text{g}$	$\pm 80\text{g}$	$\pm 32\text{g}$	$\pm 16\text{g}$	28kHz (1,680kcpm)	26kHz (1,560kcpm)	24kHz (1,440kcpm)	22kHz (1,320kcpm)	20kHz (1,200kcpm)	18kHz (1,080kcpm)	08 - Flame Retardant	58 - M8	06 - M6 x 1mm Male	08 - M8 x 1.25mm Male



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We reserve the right to alter the specification of this product without prior notice
TS088.3

