HS-102 Accelerometer

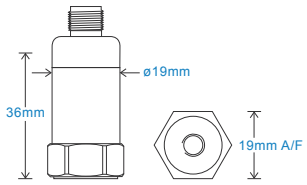
AC acceleration output via TNC Connector

Key Features

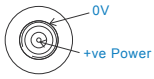
- For use with data collector
- Customisable features

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 ±10%
	Nominal 80Hz at 22°C
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) ± 5%
	1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
	0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation	Base non-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	50gms (nominal)
Mating Connector	TNC
Mounting Threads	see: 'How To Order' table

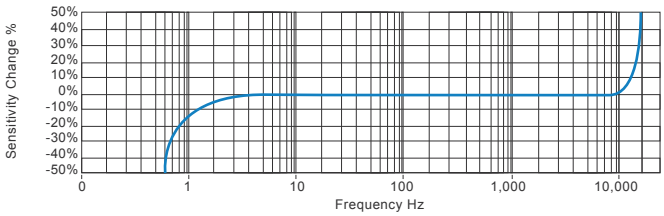
Electrical

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 90 °C
Sealing	IP55
Maximum Shock	5000g
EMC	EN61326-1:2013

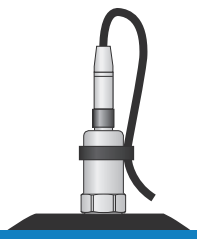
Typical Frequency Response (at 100mV/g)



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
HS - Hansford Sensors

Product Series
102 - Industrial Vibration Sensor

H	S	1	0	2	X	X	X	X	X	X	X	X

Extra Options (if required)
F - Filtered
I - Intrinsically Safe
RT - Temperature Output PT100
S - 90° Side Exit
T - Temperature Output
Y - 5% tolerance on sensitivity

Sensitivity	Range	Resonant Frequency
010 - 10mV/g	±800g	26kHz (1,560kcpm)
030 - 30mV/g	±250g	24kHz (1,440kcpm)
050 - 50mV/g	±160g	22kHz (1,320kcpm)
100 - 100mV/g	±80g	20kHz (1,200kcpm)
250 - 250mV/g	±32g	18kHz (1,080kcpm)
500 - 500mV/g	±16g	16kHz (960kcpm)

Connector
55 - TNC

Mounting Threads
01 - ¼-28" UNF Female
02 - ¼-28" UNF Male
06 - M6 x 1mm Male
08 - M8 x 1.25mm Male
10 - M10 x 1.5mm Male

Hansford Sensors
Excellence in Vibration Monitoring

www.hansfordsensors.com
sales@hansfordsensors.com