

HS-102 Accelerometer

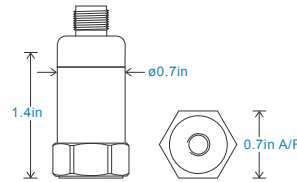
AC acceleration output via TNC Connector

Key Features

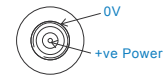
- For use with data collector
- Customizable features

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 72°F
Frequency Response	120cpm (2Hz) to 840kcpm (14kHz) $\pm 5\%$ 90cpm (1.5Hz) to 960kcpm (16kHz) $\pm 10\%$ 48cpm (0.8Hz) to 1,140kcpm (19kHz) $\pm 3dB$
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	5.9ft. lbs
Weight	1.8 oz. (nominal)
Mating Connector	TNC
Mounting Threads	see: 'How To Order' table

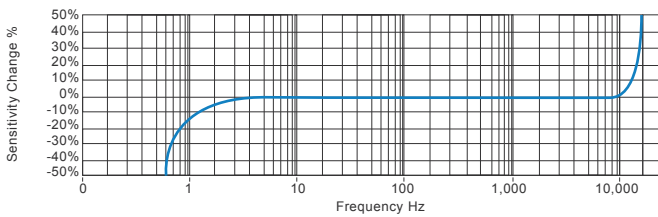
Electrical

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	-67 to 194°F
Sealing	IP55
Maximum Shock	5000g
EMC	EN61326-1:2013

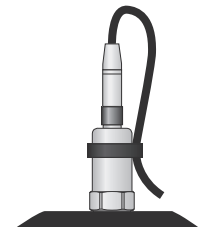
Typical Frequency Response (at 100mV/g)



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	Product Series	Options											
HS - Hansford Sensors	102 - Industrial Vibration Sensor	H	S	1	0	2	X	X	X	X	X	X	X
Extra Options (if required)	Sensitivity	Range	Resonant Frequency	Connector	Mounting Threads								
F - Filtered	010 - 10mV/g $\pm 800g$	$\pm 800g$	1,560kcpm (26kHz)	55 - TNC	01 - 1/4-28" UNF Female								
L - 316L Stainless Steel	030 - 30mV/g $\pm 250g$	$\pm 250g$	1,440kcpm (24kHz)		02 - 1/4-28" UNF Male								
RT - Temperature Output PT100	050 - 50mV/g $\pm 160g$	$\pm 160g$	1,320kcpm (22kHz)		06 - M6 x 1mm Male								
S - 90° Side Exit	100 - 100mV/g $\pm 80g$	$\pm 80g$	1,200kcpm (20kHz)		08 - M8 x 1.25mm Male								
T - Temperature Output	250 - 250mV/g $\pm 32g$	$\pm 32g$	1,080kcpm (18kHz)		10 - M10 x 1.5mm Male								
Y - 5% tolerance on sensitivity	500 - 500mV/g $\pm 16g$	$\pm 16g$	960kcpm (16kHz)										



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We reserve the right to alter the specification of this product without prior notice
TS033U.3

