

AC acceleration output via M12 Connector

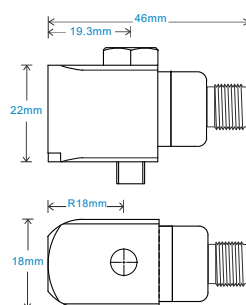
Key Features

- Mini compact design
- Premium design
- Side entry for easy access

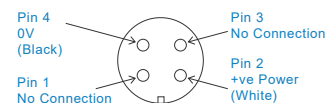


Industries

Automotive, Machine Tools, OEM



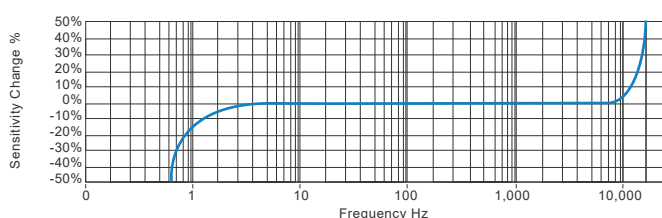
Connection Details



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table $\pm 10\%$	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8 Nm
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) $\pm 5\%$	Mounting Bolt Provided	see: 'How To Order' table x 27mm long
	1.5Hz (90cpm) to 16kHz (960kcpm) $\pm 10\%$	Weight	83gms (nominal) body only
	0.8Hz (48cpm) to 19kHz (1,140kcpm) $\pm 3\text{dB}$	Screened cable assembly	HS-AC010 - straight
Isolation	Base isolated	Connector	HS-AA043
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%		

Electrical		Environmental	
Electrical Noise	0.1mg max	Operating Temperature Range	-55 to 130°C
Current Range	0.5mA to 8mA	Sealing	IP67
Bias Voltage	10 - 12 Volts DC	Maximum Shock	5000g
Settling Time	1 second	EMC	EN61326-1:2013
Output Impedance	200 Ohms max.		
Case Isolation	>10 ⁸ Ohms at 500 Volts		

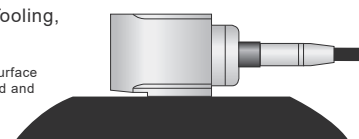
Typical Frequency Response (at 100mV/g)



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
180 - Compact Premium Industrial Vibration Sensor

Extra Options (if required)
F - Filtered
L - 316L Stainless Steel
S - 90° Side Exit
Y - 5% tolerance on sensitivity

Sensitivity
010 - 10mV/g
100 - 100mV/g

Range
±800g
±80g

Resonant Frequency
30kHz (1,800kcpm)
24kHz (1,440kcpm)

Cable/Connector
01 - PUR
07 - Silicon
08 - Flame Retardant
50 - 2 Pin MS
54 - M12

Mounting Threads
02 - 1/4-28" UNF Male
06 - M6 x 1mm Male



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

TS973.5

