# HS-180S Premium Accelerometer AC acceleration output via 2 Pin MS Connector

## **Key Features**

Industries

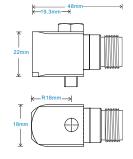
Mini compact design

Side entry for easy access

Automotive, Machine Tools, OEM

Premium design





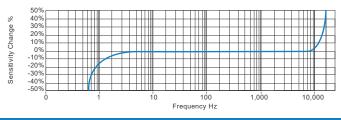
#### Connection Details



Technical Performanc	e	Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) ± 5%	Mounting Bolt Provided	see: 'How To Order' table x 27mm long
	1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%	Weight	83gms (nominal) body only
	0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB	Screened cable assembly	see: www.hansfordsensor.com for options
Isolation	Base isolated	Connector	HS-AA004-non booted
Range	see: 'How To Order' table		HS-AA053 or HS-AA054-booted
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		-	

Electrical		Environmental	
Electrical Noise	0.1mg max	Operating Temperature Range	-55 to 130°C
Current Range	0.5mA to 8mA	Sealing	IP68
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 <sup>8</sup> 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 Se	ensors		Product Series 180 - Compact Premium Industrial Vibration Sensor									
H S	1	8	0	S	X	X	X	X	X	X	X	
Extra Options (i F - Filtered L - 316L Stainte S - 90° Side Ex Y - 5% tolerand	ess Steel it			<b>ivity</b> 10mV/g 100mV/g		nge Resc D0g 30kH 0g 24kH		<b>quency</b> DOkcpm) 40kcpm)	01 - PU 07 - Si	licon ame Retar Pin MS		<b>Mounting Threads</b> 02 - ¼-28" UNF Male 06 - M6 x 1mm Male



www.hansfordsensors.com sales@hansfordsensors.com JK ZA

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We reserve the right to alter the specification of this product without prior notice TS974.6