HS-180S Premium Accelerometer AC acceleration output via Silicon Cable

Key Features

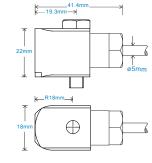
Mini compact design

- Waterproof
- · Side entry for easy access

Industries

Automotive, Machine Tools, OEM





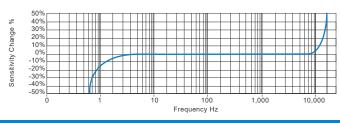
Connection Details



Technical Performance	•	Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8 Nm
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	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Silicon - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Submersible Depth	100 metres max (10 bar)

Electrical		Environmental	
Electrical Noise	0.1mg max	Operating Temperature Range	-55 to 150°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 ⁸ Ohms at 500 Volts		

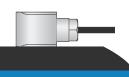
Typical Frequency Response (at 100mV/g)



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		ict Series Compact Premium Industrial Vibration Sensor					Cable Length (if integral cable) QXX - length specified in metres						
H S 1	8	0	S	X	X	X	X	X	X	X	x	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit Y - 5% tolerance on sensit	vity	Sensitiv 010 - 1 100 - 1	0mV/g	Rang ±800 ±80g	g 30kHz	· · ·	quency Okcpm) Okcpm)	01 - PU 07 - Si	licon ame Retai Pin MS	-	02 - 1/4	t ing Threa -28" UNF 6 x 1mm M	Male



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We reserve the right to alter the specification of this product without prior notice TS1391

