AC acceleration output via 2 Pin MS Connector

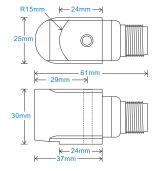
Key Features

- For use with data collector and online systems
- Side entry for easy access
- Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





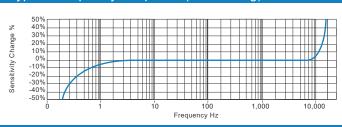
Connection Details



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	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Screened Cable Assembly	see: www.hansfordsensors.com for options
Isolation	Base isolated	Connector	HS-AA004 - non-booted
Range	see: 'How To Order' table		HS-AA053 or HS-0054 - booted
Transverse Sensitivity	Less than 5%	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	1 second
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

Typical Frequency Response (at 100mV/g)



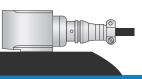
Environmental

Operating Temperature Range Sealing Maximum Shock EMC -55 to 150°C IP68 5000g EN61326-1:2013

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		t Series remium Ir	ndustrial Vi	ibration S	ensor						
H S 1	5	0	S	X	X	X	X	X	X	X	
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 27kHz 25kHz 23kHz 21kHz 19kHz 17kHz	nt Freque (1,620kc (1,500kc (1,380kc (1,260kc (1,140kc (1,020kc	:pm) :pm) :pm) :pm) :pm)	01 - PU 02 - Br 07 - Si	aided licon ame Reta Pin MS		Mounting Threads 02 - ¼-28° UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm M



www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice TS216.9

AC acceleration output via M12 Connector

Key Features

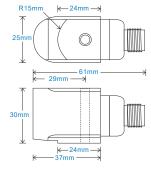
Premium design

- Side entry for easy access
- Customisable features

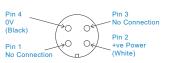


Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Connection Details



Stainless Steel

-55 to 150°C

EN61326-1:2013

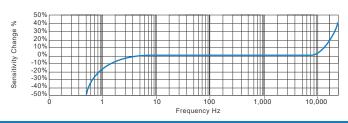
IP67

5000g

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	
	Nominal 80Hz at 22°C	Mounting Torque	
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt Provided	see: 'Ho
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Screened Cable Assembly	
Isolation	Base isolated		
Range	see: 'How To Order' table	Mounting Threads	
Transverse Sensitivity	Less than 5%		

Electrical	
Excitation Voltage:	18-30Volts DC
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

Typical Frequency Response (at 100mV/g)



EMC

Environmental

Sealing Maximum Shock

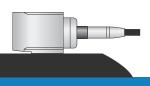
Operating Temperature Range

ruction	PZT/Shear
	8Nm
	see: 'How To Order' table x 35mm long
	205gms (nominal) body only
bly	HS-AC010 - straight
	HS-AC011 - right angle
	see: 'How To Order' table

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

	luct Series - Premium Industrial Vit	bration Sensor			
H S 1 5	0 S	X X	x x	x x x	
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity	Sensitivity 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g	Range Resona ±800g 34kHz ±250g 33kHz ±160g 32kHz ±80g 30kHz ±32g 28kHz ±16g 26kHz	nt Frequency (2,040kcpm) (1,980kcpm) (1,920kcpm) (1,800kcpm) (1,680kcpm) (1,560kcpm)	Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12	Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Ma



www.hansfordsensors.com sales@hansfordsensors.com

€ ₹

We reserve the right to alter the specification of this product without prior notice TS266.7

AC acceleration output via Braided Cable

Key Features

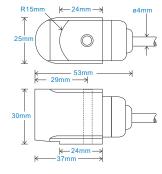
Premium design

- Side entry for easy access
- Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





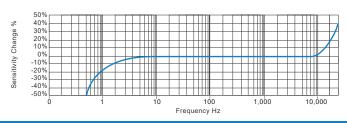
Connection Details



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	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Braided - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical	
Excitation Voltage:	18-30Volts DC
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

Typical Frequency Response (at 100mV/g)



Applications

Environmental

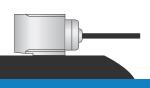
Sealing Maximum Shock

EMC

Operating Temperature Range

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.)



-55 to 150°C

EN61326-1:2013

IP65

5000g

How To Order

Product Prefix HS - Hansford Sensors		t Series remium Ir	ndustrial V	ibration S	ensor							f integral ecified in r	
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resonat 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	:pm) :pm) :pm) :pm) :pm)	01 - PU 02 - Br 07 - Si 08 - FI	aided licon ame Retar Pin MS		02 - ¼ 06 - M	ting Threa 28" UNF 6 x 1mm M 8 x 1.25m	Male ⁄Iale



www.hansfordsensors.com sales@hansfordsensors.com

€€ ∑

We reserve the right to alter the specification of this product without prior notice TS271.7

HS-150S Premium Accelerometer AC acceleration output via Silicon Cable

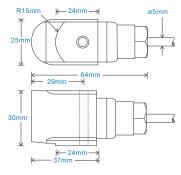
Key Features

- Waterproof
- Side entry for easy access
- Premium design

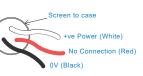


Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





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	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 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)

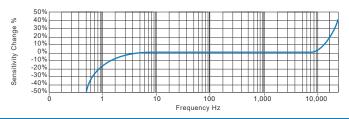
Electrical		Environmental
	18-30Volts DC	Operating Temperature Dange
Excitation Voltage:	To-SUVUILS DC	Operating Temperature Range
Electrical Noise	0.1mg max	Sealing
Current Range	0.5mA to 8mA	Maximum Shock
Bias Voltage	10 - 12 Volts DC	EMC
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

Maximum Shock

-50 to 150°C

IP68 5000g EN61326-1:2013

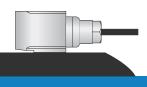
Typical Frequency Response (at 100mV/g)



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		t Series remium In	dustrial V	ibration S	ensor							f integral ecified in r	
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered - 316L Stainless Steel RT - Temperature Output P' S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensit	Г100	030 - 050 - 100 - 250 -	vity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	:pm) :pm) :pm) :pm) :pm)	01 - PU 02 - Br 07 - Si 08 - FI	aided licon ame Retar Pin MS	-	02 - ¼ 06 - M	t ing Threa -28" UNF 6 x 1mm M 8 x 1.25m	Male ⁄Iale



www.hansfordsensors.com sales@hansfordsensors.com

CE

We reserve the right to alter the specification of this product without prior notice TS275.7

AC acceleration output via PUR Cable

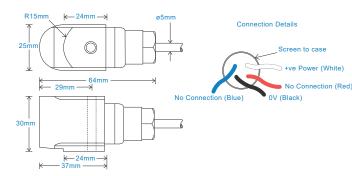
Key Features

- Waterproof
- Resistant to oil
- Premium design

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical

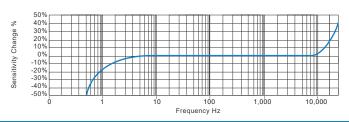




Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	PUR - 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	
Excitation Voltage:	18-30Volts DC
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

Typical Frequency Response (at 100mV/g)



Applications

Environmental

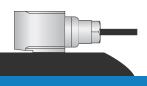
Sealing Maximum Shock

EMC

Operating Temperature Range

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.)



-30 to 90°C

EN61326-1:2013

IP68

5000g

How To Order

Product Prefix HS - Hansford Sensors	Product Series 150 - Premium Industrial Vibration Sensor								e Length (if integral cable) - length specified in metres				
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output P' S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensit	۲100	030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	:pm) :pm) :pm) :pm) :pm)	01 - Pl 02 - Br 07 - Si 08 - Fl	raided licon ame Reta Pin MS		02 - ¼ 06 - M	t ing Threa -28" UNF ∣ 6 x 1mm M 8 x 1.25m	Male Iale



www.hansfordsensors.com sales@hansfordsensors.com

€€ ∑

We reserve the right to alter the specification of this product without prior notice TS279.7

HS-150S Premium Accelerometer AC acceleration output via FEP Cable with Protective Conduit

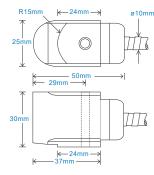
Key Features

- Resistant to oil
- Protective Conduit
- Premium design

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



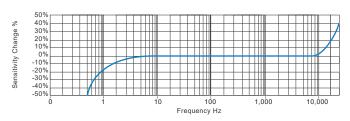


Connection Details



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/Constructior	n PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	FEP - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Conduit Material	304 Stainless Steel
		Conduit Length Conduit	Length is approx. 0.5m shorter than the cable
			Maximum Conduit Length:30m
Electrical		Environmental	
Excitation Voltage:	18-30Volts DC	Operating Temperature Range	-55 to 150°C
Electrical Noise	0.1mg max	Sealing	IP65
Current Range	0.5mA to 8mA	Maximum Shock	5000g
Bias Voltage	10 - 12 Volts DC	EMC	EN61326-1:2013
Settling Time	2 seconds		
Output Impedance	200 Ohms max.		

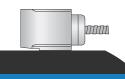
Typical Frequency Response (at 100mV/g)



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

Case Isolation

Product Prefix HS - Hansford Sensors	Product Se 150 - Premi	ries um Industrial ∖	/ibration S	Sensor								f integral ecified in r	
H S 1	5 () S	X	X	X	X	X	X	X	X	x	X	X
Extra Options (if required F - Filtered L - 316L Stainless Steel RT - Temperature Output P S - 90° Side Exit T - Temperature Output P Y - 5% tolerance on sensiti	0 03 T100 03 10 23	ensitivity 10 - 10mV/g 30 - 30mV/g 50 - 50mV/g 50 - 100mV/g 50 - 250mV/g 50 - 500mV/g	±32g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	:pm) :pm) :pm) :pm) :pm)	30C -	Connecto FEP with tive Condu		02 - ½ 06 - N	ting Thre 4-28" UNF 16 x 1mm 18 x 1.25n	Male Male	

>10⁸ Ohms at 500 Volts



www.hansfordsensors.com sales@hansfordsensors.com CE

We reserve the right to alter the specification of this product without prior notice TS778.6

AC acceleration output via Flame Retardant Cable

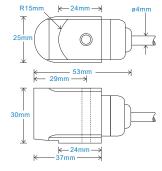
Key Features

- Premium design
- Side entry for easy access
- Customisable features
- · Low smoke, halogen free cable

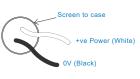
Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



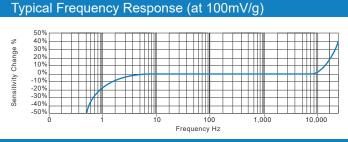


Connection Details



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/Construct	ction PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable F	lame Retardant - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical	
Excitation Voltage:	18-30Volts DC
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



EMC

Environmental

Sealing

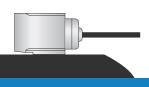
Operating Temperature Range Maximum Shock

-55 to 100°C IP65 5000g EN61326-1:2013

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 150 - Pro		dustrial V	ibration S	ensor							f integral ecified in r	
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output P' S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensiti	Г100	030 - 3 050 - 3 100 - 3 250 - 3	vity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	pm) pm) pm) pm) pm)	01 - PL 02 - Br 07 - Sil	aided icon ame Retar Pin MS	-	02 - ¼ 06 - M	t ing Threa -28" UNF 6 x 1mm M 8 x 1.25m	Male ⁄Iale



www.hansfordsensors.com sales@hansfordsensors.com CE

We reserve the right to alter the specification of this product without prior notice TS809.3

HS-150S Premium Accelerometer AC acceleration output via 4 Core Polyolefin HFFR

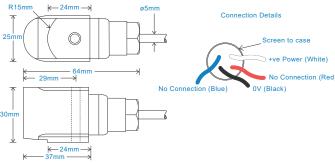
Key Features

· Side entry for easy access

- High Temperature
- Premium design

Industries Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical

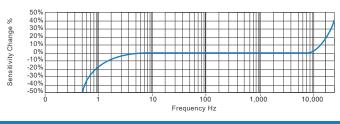




Technical Performance	;	Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Constr	ruction PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Polyolefin HFFR - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical	
Excitation Voltage:	18-30Volts DC
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

Typical Frequency Response (at 100mV/g)



Environmental

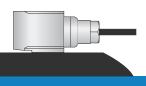
Operating Temperature Range
Sealing
Maximum Shock
EMC

-55 to 130°C
IP68
5000g
EN61326-1:2013

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

		ct Series Premium In	idustrial Vib	ration Ser	nsor					Cable Length QXX - length specified in metres			
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output P' S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensi	T100	030 050 100 250	tivity - 10mV/g - 30mV/g - 50mV/g - 100mV/g - 250mV/g - 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	int Frequ (2,040) (1,980) (1,920) (1,800) (1,680) (1,660)	kcpm) kcpm) kcpm) kcpm) kcpm)	37 - 4	Connecto Core efin HFFR		02 - ½ 06 - N	t ing Thre 4-28" UNF 46 x 1mm 18 x 1.25n	Male Male



www.hansfordsensors.com sales@hansfordsensors.com CE

We reserve the right to alter the specification of this product without prior notice TS1049.2

HS-150S Premium Accelerometer AC acceleration output via 3 Core Silicon Cable with Protective Over-Sheath

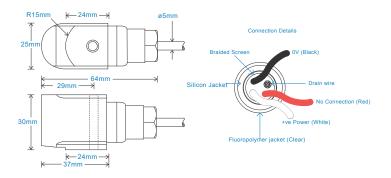
Key Features

- Waterproof
- Side entry for easy access
- Premium design

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical

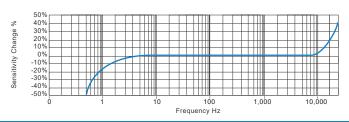




Technical Performance	;	Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 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	
Excitation Voltage:	18-30Volts DC
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

Typical Frequency Response (at 100mV/g)



Applications

Environmental

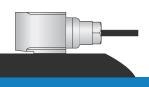
Sealing Maximum Shock

EMC

Operating Temperature Range

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.)



-50 to 150°C

EN61326-1:2013

IP68

5000g

How To Order

		Series emium In	dustrial Vi	bration S	ensor						Length (if length spe		
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		030 - 050 - 100 - 250 -	vity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resonat 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	spm) spm) spm) spm) spm)		Connecto licon Over-		02 - ¼- 06 - M6	ng Threa 28" UNF 3 x 1mm M 3 x 1.25m	Male Male



www.hansfordsensors.com sales@hansfordsensors.com CE

We reserve the right to alter the specification of this product without prior notice TS1015

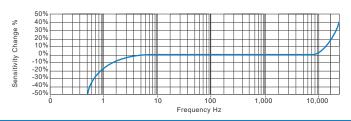
AC acceleration output via 3 Core Silicon Cable with Protective Over-Sheath and Removable Stainless Steel Conduit

k 24mm → Connection Details **Key Features** Waterproof to IP68 \bigcirc 116 V (Black) Side entry for easy access Removable Stainless Steel Conduit rain wire _ - 29mm — No Connection (Red) Industries +ve Power (White) ΠΠ Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, polymer jacket (Clear) Water, Pharmaceutical - 37mm -⇒ — 47mm

Technical Performance	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	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 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

Electrical		Environmental
Excitation Voltage:	18-30Volts DC	Operating Temperature Range
Electrical Noise	0.1mg max	Sealing
Current Range	0.5mA to 8mA	Maximum Shock
Bias Voltage	10 - 12 Volts DC	EMC
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

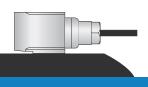
Typical Frequency Response (at 100mV/g)



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.)



-50 to 150°C

EN61326-1:2013

IP68 5000g

How To Order

		t Series remium Ir	ndustrial Vi	ibration S	ensor						Cable Length (if integral cable) QXX - length specified in metres				
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X		
Extra Options (if required) F - Filtered RT - Temperature Output P S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensi	T100	030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	spm) spm) spm) spm) spm)	29C - S Over-S	Connecto Silicon Cab heath and able Cond	le with	02 - ¼ 06 - M	ing Threa -28" UNF ∣ 6 x 1mm N 8 x 1.25mi	Male ⁄Iale		

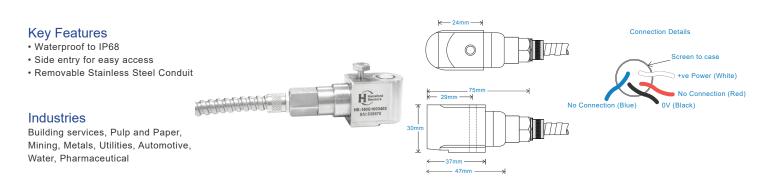


www.hansfordsensors.com sales@hansfordsensors.com

€€

We reserve the right to alter the specification of this product without prior notice TS1085

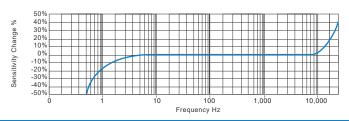
HS-150S Premium Accelerometer AC acceleration output via 4 Core PUR Cable with Removable Stainless Steel Conduit



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	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	PUR - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical		Environmental
Excitation Voltage:	18-30Volts DC	Operating Temperature Range
Electrical Noise	0.1mg max	Sealing
Current Range	0.5mA to 8mA	Maximum Shock
Bias Voltage	10 - 12 Volts DC	EMC
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

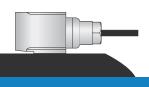
Typical Frequency Response (at 100mV/g)



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.)



-30 to 90°C

EN61326-1:2013

IP68 5000g

How To Order

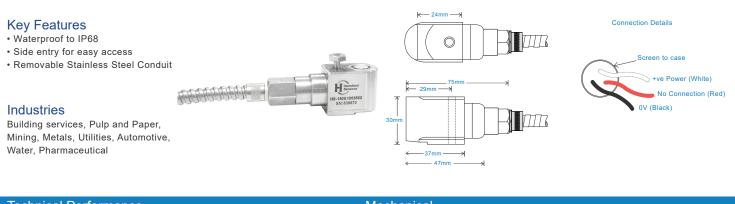
Product Prefix HS - Hansford Sensors	t Series remium In	idustrial Vi	ibration S	ensor						Cable Length (if integral cable) QXX - length specified in metres				
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X	
Extra Options (if required) F - Filtered RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	:pm) :pm) :pm) :pm) :pm)	34 - 4 C with ren Steel C 35 - 3 C	ore Silico novable S	Cable ainless n Cable	02 - ¼ 06 - M	t ing Threa -28" UNF ∣ 6 x 1mm N 8 x 1.25mi	Male /Iale	



www.hansfordsensors.com sales@hansfordsensors.com CE

We reserve the right to alter the specification of this product without prior notice TS979.1

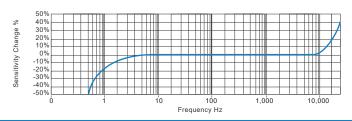
AC acceleration output via 3 Core Silicon Cable with Removable Stainless Steel Conduit



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	8Nm	
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long	
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only	
	0.2Hz (12cpm) to 15kHz (900kcpm) ± 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	

Electrical		Environmental
Excitation Voltage:	18-30Volts DC	Operating Temperature Range
Electrical Noise	0.1mg max	Sealing
Current Range	0.5mA to 8mA	Maximum Shock
Bias Voltage	10 - 12 Volts DC	EMC
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

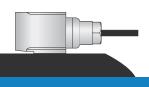
Typical Frequency Response (at 100mV/g)



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.)



-50 to 150°C

EN61326-1:2013

IP68 5000g

How To Order

Product Prefix HS - Hansford Sensors		t Series remium Ir	ndustrial V	ibration S	ensor							f integral ecified in r	
H S 1	5	0	S	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered RT - Temperature Output P S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensi	T100	030 - 050 - 100 - 250 -	ivity 10mV/g 30mV/g 50mV/g 100mV/g 250mV/g 500mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Freque (2,040kg (1,980kg (1,920kg (1,800kg (1,680kg (1,560kg	:pm) :pm) :pm) :pm) :pm)	34 - 4 0 with rer Steel C 35 - 3 0	Core Silico novable S	Cable tainless n Cable	02 - ¼ 06 - M	ing Threa -28" UNF 6 x 1mm N 8 x 1.25m	Male ⁄Iale

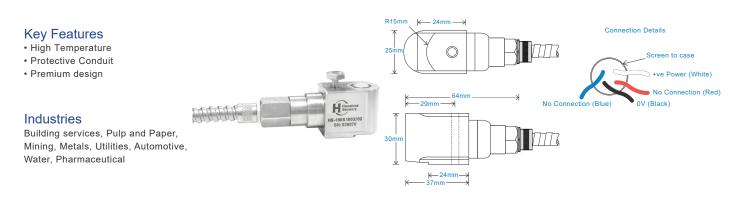


www.hansfordsensors.com sales@hansfordsensors.com

€€ ∑

We reserve the right to alter the specification of this product without prior notice TS980.2

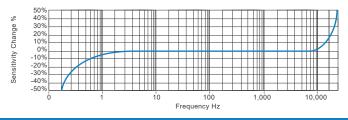
HS-150S Premium Accelerometer AC acceleration output via 4 Core Polyolefin HFFR with Protective Conduit



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/Const	ruction PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 35mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	205gms (nominal) body only
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Polyolefin HFFR - 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
Excitation Voltage:	18-30Volts DC	Operating Temperature Range
Excitation voltage.	10-30 VOILS DC	Operating reinperature Range
Electrical Noise	0.1mg max	Sealing
Current Range	0.5mA to 8mA	Maximum Shock
Bias Voltage	10 - 12 Volts DC	EMC
Settling Time	2 seconds	
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

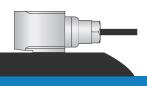
Typical Frequency Response (at 100mV/g)



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.)



-55 to 130°C

EN61326-1:2013

IP68

5000g

How To Order

	Product Series 50 - Premium Industrial \	/ibration Sen	isor					
H S 1	50S	X	X	X X	X	X	X	
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT10 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivit H - High Temperature	100 - 100mV/ 250 - 250mV/	±250g ±160g g ±80g g ±32g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Frequency (2,040kcpm) (1,980kcpm) (1,920kcpm) (1,800kcpm) (1,680kcpm) (1,560kcpm)	37C Poly Pro	le/Connect - 4 Core volefin HFFF ective Conc	R with	Mounting Threads 02 - ¼-28° UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male



www.hansfordsensors.com sales@hansfordsensors.com CE

We reserve the right to alter the specification of this product without prior notice TS990.1