AC acceleration output via 2 Pin MS Connector

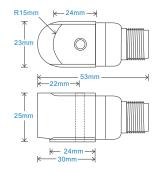
Key Features

- Compact design
- Side entry for easy access
- Premium design

Industries

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







Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22^{\circ}\mbox{C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to } 14kHz (840kcpm) $\pm 5\%$} \\ \mbox{1.5Hz (90cpm) to } 16kHz (960kcpm) $\pm 10\%$} \\ \mbox{0.8Hz (48cpm) to } 19kHz (1,140kcpm) $\pm 3dB$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than } 5\%$} \\ \end{array}$

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Connector Use booted connector only
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
 >108 Ohms at 500 Volts

Environmental

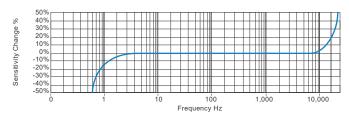
 Operating Temperature Range
 -55 to 150°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)

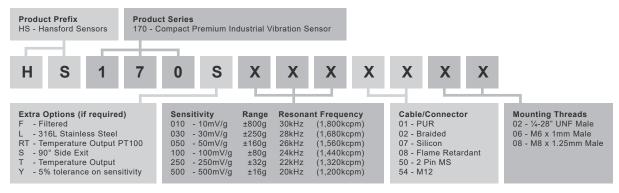


Applications

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.)











AC acceleration output via M12 Connector

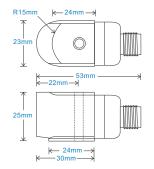
Key Features

- Compact design
- · Premium design
- · Side entry for easy access

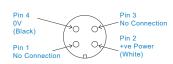
Industries

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









Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22^{\circ}\mbox{C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to } 14kHz (840kcpm) $\pm 5\%$} \\ \mbox{1.5Hz (90cpm) to } 16kHz (960kcpm) $\pm 10\%$} \\ \mbox{0.8Hz (48cpm) to } 19kHz (1,140kcpm) $\pm 3dB$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than } 5\%$} \\ \end{array}$

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8 Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Connector Use booted connector only
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
 >108 Ohms at 500 Volts

Environmental

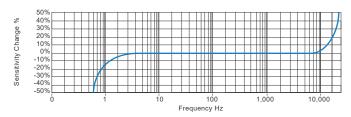
 Operating Temperature Range
 -55 to 150°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)

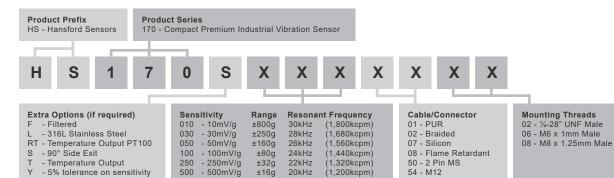


Applications

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







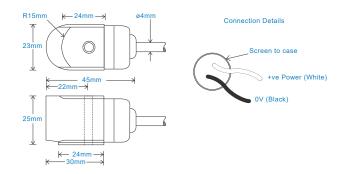
AC acceleration output via Braided Cable

Key Features

- Compact design
- Side entry for easy access
- Premium design

Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long 135gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length Screened Cable Braided - length to be specified with order Mounting Threads see: 'How To Order' table

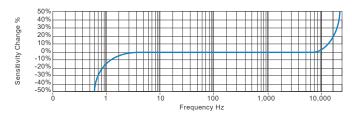
Electrical

Electrical Noise 0.1mg max Current Range 0.5mA to 8mA Bias Voltage 10 - 12 Volts DC Settling Time 1 second 200 Ohms max. Output Impedance Case Isolation >108 Ohms at 500 Volts

Environmental

-55 to 150°C Operating Temperature Range Sealing IP65 Maximum Shock 5000g **EMC** EN61326-1:2013

Typical Frequency Response (at 100mV/g)



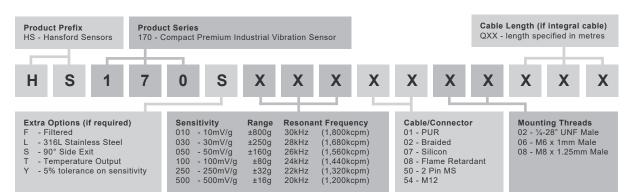
Applications

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







AC acceleration output via Silicon Cable

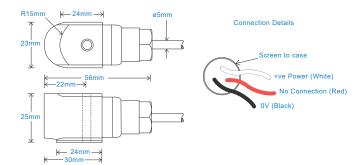
Key Features

- Premium design
- Waterproof
- · Compact design

Industries

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





Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal)
Sensitivity see: 'How To Order' table ±10%
Nominal 80Hz at 22°C
Frequency Response 2Hz (120cpm) to 14kHz (840kcpm) ± 5%
1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation Base isolated
Range see: 'How To Order' table
Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long 135gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable Silicon - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max (10 bar)

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
 >108 Ohms at 500 Volts

Environmental

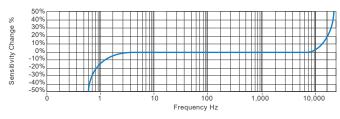
 Operating Temperature Range
 -55 to 150°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



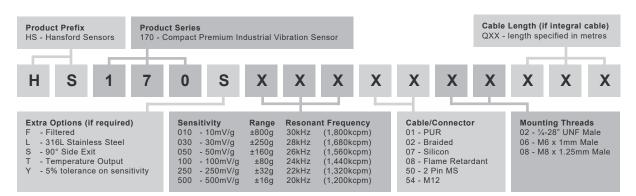
Applications

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







AC acceleration output via PUR Cable

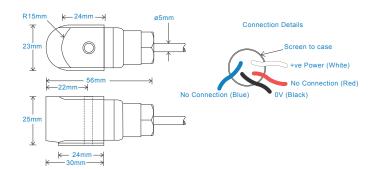
Key Features

- · Compact and Premium design
- Waterproof
- · Resistent to oil

Industries

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





Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at 22°C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to 14kHz (840kcpm) $\pm 5\%$} \\ \mbox{1.5Hz (90cpm) to 16kHz (960kcpm) $\pm 10\%$} \\ \mbox{0.8Hz (48cpm) to 19kHz (1,140kcpm) $\pm 3dB$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than } 5\% \\ \end{array}$

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 135gms (nominal) Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max (10 bar)

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
 >108 Ohms at 500 Volts

Environmental

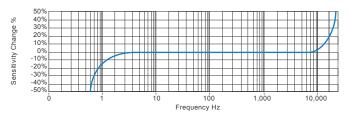
 Operating Temperature Range
 -30 to 90°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



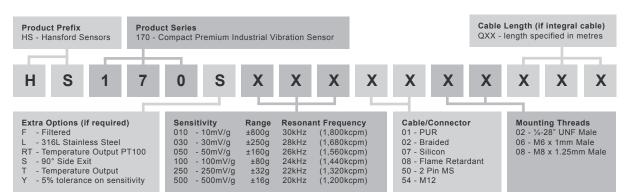
Applications

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







AC acceleration output via Flame Retardant Cable

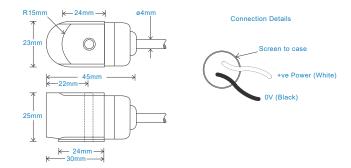
Key Features

- Compact design
- Side entry for easy access
- · Premium design

Industries

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





Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal)
Sensitivity see: 'How To Order' table ±10%
Nominal 80Hz at 22°C
Frequency Response 2Hz (120cpm) to 14kHz (840kcpm) ± 5%
1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation Base isolated
Range see: 'How To Order' table
Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 135gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length Screened Cable Flame Retardant - length to be specified with order 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
 >108 Ohms at 500 Volts

Environmental

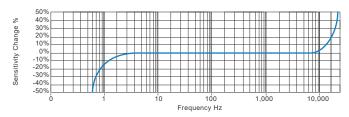
 Operating Temperature Range
 -40 to 100°C

 Sealing
 IP65

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



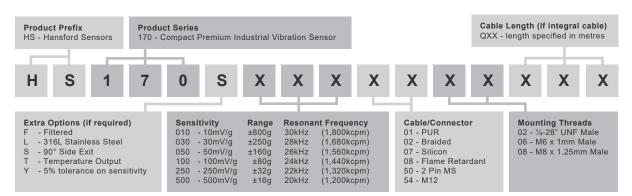
Applications

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







AC acceleration output via 4 Core Polyolefin HFFR

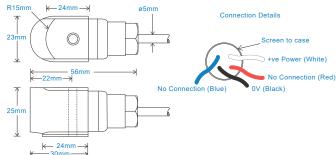
Key Features

- Premium design
- · High Temperature
- · Compact design

Industries

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





Technical Performance

 Mounted Base Resonance
 see 'How To Order' table (nominal)

 Sensitivity
 see: 'How To Order' table ±10%

 Nominal 80Hz at 22°C

 Frequency Response
 2Hz (120cpm) to 14kHz (840kcpm) ± 5%

 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB

 Isolation
 Base isolated

 Range
 see: 'How To Order' table

 Transverse Sensitivity
 Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 135gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length Screened Cable Polyolefin HFFR - length to be specified with order 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
 >108 Ohms at 500 Volts

Environmental

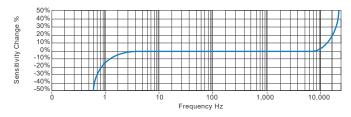
 Operating Temperature Range
 -55 to 130°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



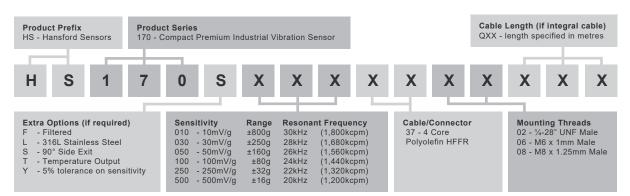
Applications

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







AC acceleration and temperature output via 3 Pin MS Connector

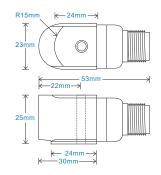
Key Features

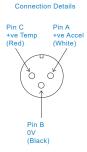
- Temperature output
- Side entry for easy access
- · Compact and premium design

Industries

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







Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Temperature Output 10 mV/°C standard 100°C - Option 150°C Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Connector Use booted connector only
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
 >108 Ohms at 500 Volts

Environmental

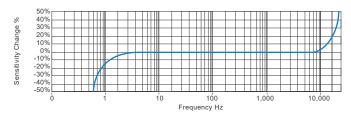
 Operating Temperature Range
 -55 to 150°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



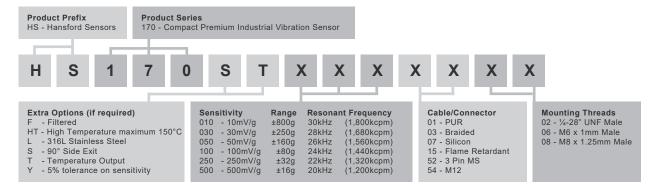
Applications

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







AC acceleration and temperature output via M12 Connector

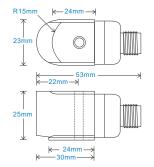
Key Features

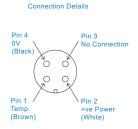
- · Compact and premium design
- · Temperature output
- · Side entry for easy access

Industries

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







Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Temperature Output 10 mV/°C standard 100°C - Option 150°C Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8 Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Connector Use booted connector only
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
 >108 Ohms at 500 Volts

Environmental

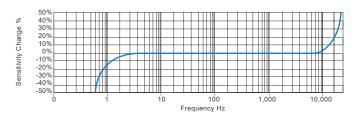
 Operating Temperature Range
 -55 to 150°C

 Sealing
 IP67

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

Typical Frequency Response (at 100mV/g)



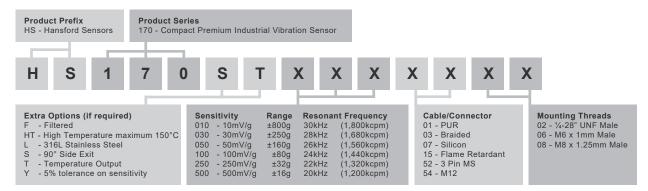
Applications

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







AC acceleration output via 2 Pin MS Connector

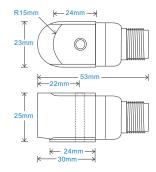
Key Features

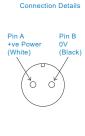
- Intrinsically Safe with European, USA, Indian and Australian approvals
- Compact design
- · Side entry for easy access
- Premium design

Industries

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







Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal)
Sensitivity see: 'How To Order' table ±10%
Nominal 80Hz at 22°C
Frequency Response 2Hz (120cpm) to 14kHz (840kcpm) ± 5%
1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation Base isolated
Range see: 'How To Order' table
Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Connector Use booted connector only
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

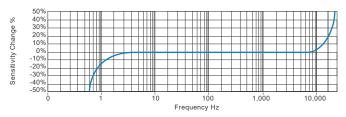
 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range see: attached certification details
Sealing IP68
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.)



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This product is certified in accordance with UL 60079-0, 6th Ed, Rev. July 26, 2013 UL 60079-11, 6th Ed. Rev. September 6, 2013 CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015 CAN/CSA C22.2 No. 60079-11:14 UL 913, 8th Ed. Rev. October 16, 2015





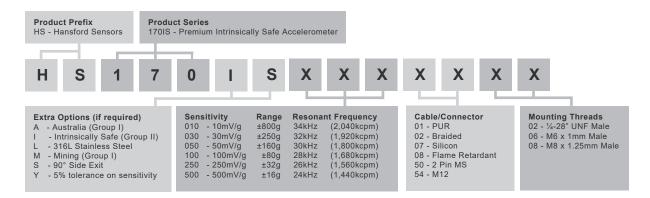
AC acceleration output via 2 Pin MS Connector

Intrinsically Safe Requirements

Maximum Cable Length	See website www.hansfordsensors.com	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X		Ex ia IIIB T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust)
	Baseefa18ATEX0130X		Ex ia IIIB T145°C Da (-55°C \leq Ta \leq +92°C) (Dust)
	⑤ I M 1		Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C \leq Ta \leq +103°C) (Mining)
Certificate details: Group II and II	II IECEx 18.0082X	Australian Approval Group I	IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	⊗II 1GD		(-55°C< Ta<+104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T135°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
	Ex ia IIIB T110°CT145°C Da		CI I, II, III, Div 1, 2 Gr A-G T*
			CI I Zn 0 AEx ia IIC T6T4 Ga
Terminal Parameters Connector	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI II Zn 20 AEx ia IIIC T135°C Da
	Ci = 1.2nF		Ex ia IIC T6T4 Ga
	Li= 0		Ex ia IIIC T135°C Da
500V Isolation	Units Will Pass A 500V Isolation Test		Or
Standards Applied to Product	EN IEC 60079-0:2018		CI I, II, III, Div 1, 2 Gr A-D G and F T*
	EN 60079-11:2012		CI I Zn 0 AEx ia IIC T6T4 Ga
			CI II Zn 20 AEx ia IIIB T110°CT145°C Da
	IEC 60079-0 Edition 7 2017		Ex ia IIC T6T4 Ga
	IEC 60079-11 Edition 6 2011		Ex ia IIIC T110°CT145°C Da
		0 1 10 1	1400 000 1 0 1 1 1 0 1 1
Barrier	1 x Pepperl + Fuchs Galvanic Isolator	Control Drawing	M06-083-A Overbraided Cable
	KFD2-VR4-Ex1.26 (BAS02ATEX7206)		M06-084-A PUR Cable
1 x MTL Zene	er Barrier MTL7728+ (BAS01ATEX7217)		M06-085-A Silicone Cable
	or Pepperl + Fuchs Zener Barrier		M06-086-A FR PUR Cable
Z728 (BA	AS01ATEX7005) or any other barrier that		M06-087-A Various Cables (HS-150IT Only)

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20. Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.

How To Order



conforms with the terminal parameters







AC acceleration output via M12 Connector

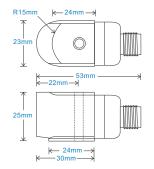
Key Features

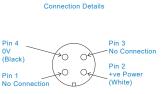
- · Intrinsically Safe with European, USA, Indian and Australian approvals
- Compact design
- · Premium design
- · Side entry for easy access

Industries

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







Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 14kHz (840kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB Isolation see: 'How To Order' table Range Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque 8 Nm Mounting Bolt Provided see: 'How To Order' table x 30mm long Weight 135gms (nominal) body only Connector Use booted connector only Mounting Threads see: 'How To Order' table

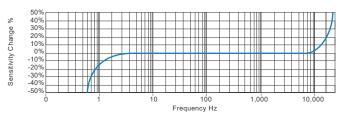
Electrical

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 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range see: attached certification details Sealing IP67 5000g Maximum Shock 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.)



Certifications









This product is certified in accordance with UL 60079-0, 6th Ed, Rev. July 26, 2013 UL 60079-11, 6th Ed. Rev. September 6, 2013 CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015 CAN/CSA C22.2 No. 60079-11:14 UL 913, 8th Ed. Rev. October 16, 2015





AC acceleration output via M12 Connector

Intrinsically Safe Requirements

Maximum Cable Length	See website www.hansfordsensors.com	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X	E	x ia IIIB T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust)
	Baseefa18ATEX0130X	E	x ia IIIB T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust)
		E	x ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C ≤ Ta ≤ +103°C) (Mining)
Certificate details: Group II and II	I IECEx 18.0082X	Australian Approval Group I	IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	®II 1GD		(-55°C< Ta<+104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T135°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
	Ex ia IIIB T110°CT145°C Da		CI I, II, III, Div 1, 2 Gr A-G T*
			CI I Zn 0 AEx ia IIC T6T4 Ga
Terminal Parameters Connector	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI II Zn 20 AEx ia IIIC T135°C Da
	Ci = 1.2nF		Ex ia IIC T6T4 Ga
	Li= 0		Ex ia IIIC T135°C Da
500V Isolation	Units Will Pass A 500V Isolation Test		Or
Standards Applied to Product	EN IEC 60079-0:2018		CI I, II, III, Div 1, 2 Gr A-D G and F T*
	EN 60079-11:2012		CI I Zn 0 AEx ia IIC T6T4 Ga
			CI II Zn 20 AEx ia IIIB T110°CT145°C Da
	IEC 60079-0 Edition 7 2017		Ex ia IIC T6T4 Ga

Barrier 1 x Pepperl + Fuchs Galvanic Isolator KFD2-VR4-Ex1.26 (BAS02ATEX7206) 1 x MTL Zener Barrier MTL7728+ (BAS01ATEX7217)

> or Pepperl + Fuchs Zener Barrier Z728 (BAS01ATEX7005) or any other barrier that conforms with the terminal parameters

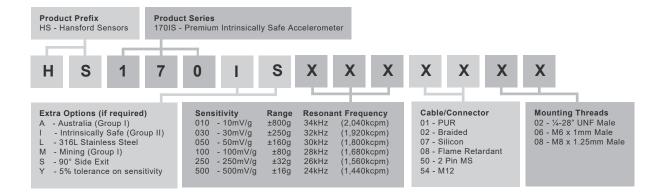
IEC 60079-11 Edition 6 2011

Ex ia IIC T6...T4 Ga Ex ia IIIC T110°C...T145°C Da M06-083-A Overbraided Cable

M06-084-A PUR Cable M06-085-A Silicone Cable M06-086-A FR PUR Cable M06-087-A Various Cables (HS-150IT Only)

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20. Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.

Control Drawing









AC acceleration output via Braided Cable

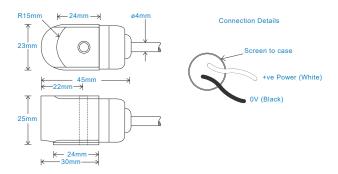
Key Features

- Intrinsically Safe with European, USA, Indian and Australian approvals
- Compact design
- · Side entry for easy access
- Premium design

Industries

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





Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22^{\circ}\mbox{C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to } 14kHz (840kcpm) $\pm 5\%$} \\ \mbox{1.5Hz (90cpm) to } 16kHz (960kcpm) $\pm 10\%$} \\ \mbox{0.8Hz (48cpm) to } 19kHz (1,140kcpm) $\pm 3dB$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than } 5\%$} \\ \end{array}$

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	135gms (nominal) body only
Maximum Cable Length	See certificate
Standard Cable Length	5 metres
Screened Cable	Braided - length to be specified with order
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

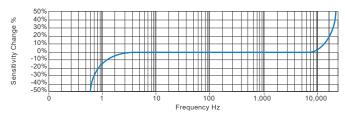
 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range see: attached certification details
Sealing IP65
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.)



Certifications









This product is certified in accordance with UL 60079-0, 6th Ed, Rev. July 26, 2013 UL 60079-11, 6th Ed. Rev. September 6, 2013 CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015 CAN/CSA C22.2 No. 60079-11:14 UL 913, 8th Ed. Rev. October 16, 2015



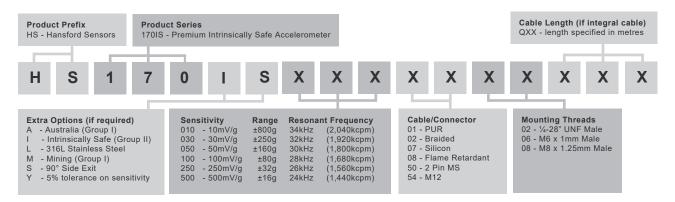


AC acceleration output via Braided Cable

Intrinsically	v Safe	Requirements
	,	

munisically Sale Requirem	CHIS		
Sensor Maximum Cable Length	Up to 92 metres	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
_			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X		Ex ia IIIC T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust)
·	Baseefa18ATEX0130X		Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	⊗ I M 1		Ex ia IIIC T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C ≤ Ta ≤ +103°C) (Mining)
Certificate details: Group II and III	IECEx 18.0082X	Australian Approval Group I	IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	ʿ II 1GD		(-55°C ≤ Ta ≤ +104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T110°CT145°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
			CI I, II, III, Div 1, 2 Gr A-G T*
Terminal Parameters 10m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI I Zn 0 AEx ia IIC T6T4 Ga
	Ci = 5.0nF		CI II Zn 20 AEx ia IIIC T110°CT145°C Da
	Li= 7.2µH		CI II Zn 20 AEx ia IIIB T110°CT145°C Da
			Ex ia IIC T6T4 Ga
Terminal Parameters 92m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		Ex ia IIIC T110°CT145°C
	Ci = 35.9nF		
	Li= 66µH	Control Drawing	M06-083-A Overbraided Cable
			M06-084-A PUR Cable
500V Isolation	Units Will Pass A 500V Isolation Test		M06-085-A Silicone Cable
			M06-086-A FR PUR Cable
Standards Applied to Product	EN IEC 60079-0:2018		M06-087-A Various Cables (HS-150IT Only)
	EN 60079-11:2012		
		Barrier	1 x Pepperl + Fuchs Galvanic Isolator
	IEC 60079-0 Edition 7 2017		KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	IEC 60079-11 Edition 6 2011	1 x	MTL Zener Barrier MTL7728+ (BAS01ATEX7217)
			or Pepperl + Fuchs Zener Barrier
			Z728 (BAS01ATEX7005) or any other barrier that
			conforms with the terminal parameters

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20 Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.







HS-170IS Premium Intrinsically Safe Accelerometer AC acceleration output via Silicon Cable

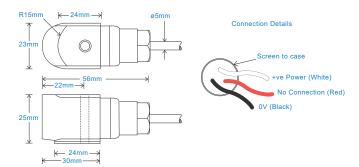
Key Features

- · Intrinsically Safe with European, USA, Indian and Australian approvals
- Premium design
- Waterproof
- · Compact design

Industries

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





Technical Performance

Manustral Dana Danasana and Hilliam Ta Ondon's table (name)
Mounted Base Resonance see 'How To Order' table (nomin
Sensitivity see: 'How To Order' table ±10
Nominal 80Hz at 22
Frequency Response 2Hz (120cpm) to 14kHz (840kcpm) ± 5
1.5Hz (90cpm) to 16kHz (960kcpm) ± 10
0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3
Isolation Base isolat
Range see: 'How To Order' tal
Transverse Sensitivity Less than 5

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Weight	135gms (nominal) body only
Maximum Cable Length	See certificate
Standard Cable Length	5 metres
Screened Cable	Silicon - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max (10 bar)

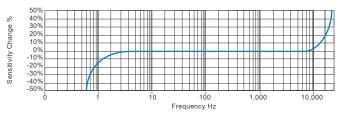
Electrical

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	>108 Ohms at 500 Volts

Environmental

Operating Temperature Range	see: attached certification details
Sealing	IP68
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.)



Certifications









This product is certified in accordance with UL 60079-0, 6th Ed, Rev. July 26, 2013 UL 60079-11, 6th Ed. Rev. September 6, 2013 CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015 CAN/CSA C22.2 No. 60079-11:14 UL 913, 8th Ed. Rev. October 16, 2015



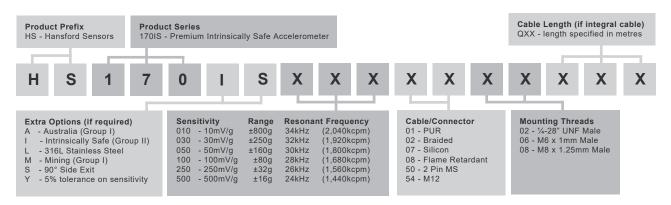


AC acceleration output via Silicon cable

ntrinsically Safe Requirements

munisically Sale Requirem	CHIS		
Sensor Maximum Cable Length	Up to 92 metres	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X		Ex ia IIIC T110°C Da (-55°C \leq Ta \leq +57°C) (Dust)
·	Baseefa18ATEX0130X		Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	⊗ I M 1		Ex ia IIIC T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C ≤ Ta ≤ +103°C) (Mining)
Certificate details: Group II and III	IECEx 18.0082X	Australian Approval Group I	IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	®Ⅱ 1GD		(-55°C ≤ Ta ≤ +104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T110°CT145°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
			CI I, II, III, Div 1, 2 Gr A-G T*
Terminal Parameters 10m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI I Zn 0 AEx ia IIC T6T4 Ga
	Ci = 5.0nF		CI II Zn 20 AEx ia IIIC T110°CT145°C Da
	Li= 7.2µH		CI II Zn 20 AEx ia IIIB T110°CT145°C Da
			Ex ia IIC T6T4 Ga
Terminal Parameters 92m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		Ex ia IIIC T110°CT145°C
	Ci = 35.9nF		
	Li= 66µH	Control Drawing	M06-083-A Overbraided Cable
			M06-084-A PUR Cable
500V Isolation	Units Will Pass A 500V Isolation Test		M06-085-A Silicone Cable
			M06-086-A FR PUR Cable
Standards Applied to Product	EN IEC 60079-0:2018		M06-087-A Various Cables (HS-150IT Only)
	EN 60079-11:2012		
		Barrier	1 x Pepperl + Fuchs Galvanic Isolator
	IEC 60079-0 Edition 7 2017		KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	IEC 60079-11 Edition 6 2011	1 x	MTL Zener Barrier MTL7728+ (BAS01ATEX7217)
			or Pepperl + Fuchs Zener Barrier
			Z728 (BAS01ATEX7005) or any other barrier that
			conforms with the terminal parameters

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20 Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.







AC acceleration output via PUR Cable

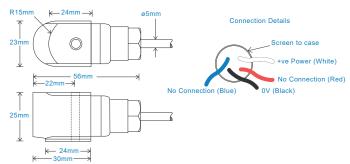
Key Features

- Intrinsically Safe with European, USA, Indian and Australian approvals
- Compact and Premium design
- Waterproof
- · Resistent to oil

Industries

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





Technical Performance

 $\begin{array}{c} \mbox{Mounted Base Resonance} & \mbox{see 'How To Order' table (nominal)} \\ \mbox{Sensitivity} & \mbox{see: 'How To Order' table $\pm 10\%$} \\ \mbox{Nominal 80Hz at } 22^{\circ}\mbox{C} \\ \mbox{Frequency Response} & \mbox{2Hz (120cpm) to } 14kHz (840kcpm) $\pm 5\%$} \\ \mbox{1.5Hz (90cpm) to } 16kHz (960kcpm) $\pm 10\%$} \\ \mbox{0.8Hz (48cpm) to } 19kHz (1,140kcpm) $\pm 3dB$} \\ \mbox{Isolation} & \mbox{Base isolated} \\ \mbox{Range} & \mbox{see: 'How To Order' table} \\ \mbox{Transverse Sensitivity} & \mbox{Less than } 5\%$} \\ \end{array}$

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Shear Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 30mm long 135gms (nominal) body only See certificate Maximum Cable Length Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 100 metres max (10 bar)

Electrical

 Electrical Noise
 0.1mg max

 Current Range
 0.5mA to 8mA

 Bias Voltage
 10 - 12 Volts DC

 Settling Time
 1 second

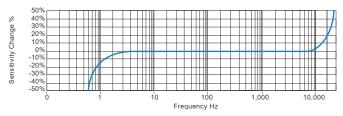
 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range see: attached certification details Sealing IP68
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.)



Certifications









This product is certified in accordance with UL 60079-0, 6th Ed, Rev. July 26, 2013 UL 60079-11, 6th Ed. Rev. September 6, 2013 CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015 CAN/CSA C22.2 No. 60079-11:14 UL 913, 8th Ed. Rev. October 16, 2015



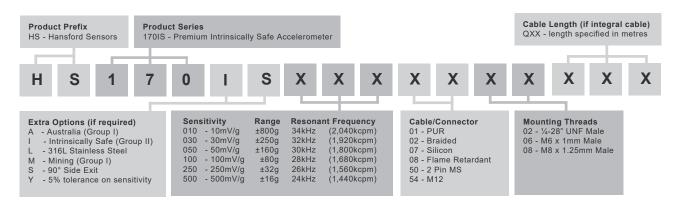


AC acceleration output via PUR cable

Intrinsically	v Safe Re	quirements
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munisically date requirem	CIIIO		
Sensor Maximum Cable Length	Up to 92 metres	Certified Temperature Rang	ge Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X		Ex ia IIIC T110°C Da (-55°C ≤ Ta ≤ +57°C) (Dust)
	Baseefa18ATEX0130X		Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	⊗ I M 1		Ex ia IIIC T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C \leq Ta \leq +103°C) (Mining)
Certificate details: Group II and III	IECEx 18.0082X	Australian Approval Group	I IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	®Ⅱ 1GD		(-55°C ≤ Ta ≤ +104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T110°CT145°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
			CI I, II, III, Div 1, 2 Gr A-G T*
Terminal Parameters 10m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI I Zn 0 AEx ia IIC T6T4 Ga
	Ci = 5.0nF		CI II Zn 20 AEx ia IIIC T110°CT145°C Da
	Li= 7.2µH		CI II Zn 20 AEx ia IIIB T110°CT145°C Da
	·		Ex ia IIC T6T4 Ga
Terminal Parameters 92m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		Ex ia IIIC T110°CT145°C
	Ci = 35.9nF		
	Li= 66µH	Control Drawing	M06-083-A Overbraided Cable
			M06-084-A PUR Cable
500V Isolation	Units Will Pass A 500V Isolation Test		M06-085-A Silicone Cable
			M06-086-A FR PUR Cable
Standards Applied to Product	EN IEC 60079-0:2018		M06-087-A Various Cables (HS-150IT Only)
	EN 60079-11:2012		
		Barrier	1 x Pepperl + Fuchs Galvanic Isolator
	IEC 60079-0 Edition 7 2017		KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	IEC 60079-11 Edition 6 2011	1	x MTL Zener Barrier MTL7728+ (BAS01ATEX7217)
			or Pepperl + Fuchs Zener Barrier
			Z728 (BAS01ATEX7005) or any other barrier that
			conforms with the terminal parameters

Special conditions of use: When a sensor is supplied with integral cable, this must be terminated in an enclosure providing at least degree of protection IP20 Note: If the equipment is to be used in unusual environments or aggressive substances are likely to be encountered, contact the manufacturer to discuss suitability.







AC acceleration output via Flame Retardant Cable

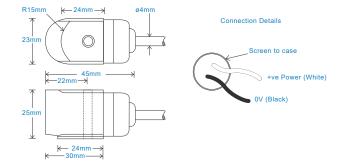
Key Features

- Intrinsically Safe with European, USA, Indian and Australian approvals
- Compact design
- Side entry for easy access
- Premium design

Industries

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





Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal)
Sensitivity see: 'How To Order' table ±10%
Nominal 80Hz at 22°C
Frequency Response 2Hz (120cpm) to 14kHz (840kcpm) ± 5%
1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%
0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation Base isolated
Range see: 'How To Order' table
Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel
Sensing Element/Construction PZT/Shear
Mounting Torque 8Nm
Mounting Bolt Provided see: 'How To Order' table x 30mm long
Weight 135gms (nominal) body only
Maximum Cable Length
Standard Cable Length
Screened Cable Flame Retardant - length to be specified with order
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

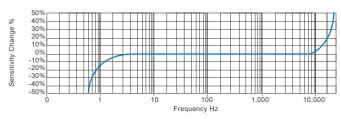
 Output Impedance
 200 Ohms max.

 Case Isolation
 >108 Ohms at 500 Volts

Environmental

Operating Temperature Range See attached certification details
Sealing IP65
Maximum Shock 5000g
EMC EN61326-1:2013

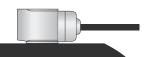
Typical Frequency Response (at 100mV/g)



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.)



Certificates









This product is certified in accordance with UL 60079-0, 6th Ed, Rev. July 26, 2013 UL 60079-11, 6th Ed. Rev. September 6, 2013 CAN/CSA C22.2 No. 60079-0:15 Rev. October 2015 CAN/CSA C22.2 No. 60079-11:14 UL 913, 8th Ed. Rev. October 16, 2015





AC acceleration output via Flame Retardant Cable

ntrinsically Safe Requirements

munisically Sale Requirem	ents		
Sensor Maximum Cable Length	Up to 92 metres	Certified Temperature Range	Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +57°C) (Gas)
			Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +103°C) (Gas)
Certificate details: Group I	IECEx 18.0082X		Ex ia IIIC T110°C Da (-55°C \leq Ta \leq +57°C) (Dust)
·	Baseefa18ATEX0130X		Ex ia IIIC T135°C Da (-55°C ≤ Ta ≤ +70°C) (Dust)
	⊗ I M 1		Ex ia IIIC T145°C Da (-55°C ≤ Ta ≤ +92°C) (Dust)
	Ex ia I Ma		Ex ia I Ma (-55°C ≤ Ta ≤ +103°C) (Mining)
Certificate details: Group II and III	IECEx 18.0082X	Australian Approval Group I	IECEx ExTC 18.0032X
	Baseefa18ATEX0130X		Ex ia I Ma
	©Ⅱ 1GD		(-55°C ≤ Ta ≤ +104°C)
	Ex ia IIC T6T4 Ga		
	Ex ia IIIC T110°CT145°C Da	US/Canada Approvals	Certificate No. SGSNA/19/BAS/00005
			CI I, II, III, Div 1, 2 Gr A-G T*
Terminal Parameters 10m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		CI I Zn 0 AEx ia IIC T6T4 Ga
	Ci = 5.0nF		CI II Zn 20 AEx ia IIIC T110°CT145°C Da
	Li= 7.2µH		CI II Zn 20 AEx ia IIIB T110°CT145°C Da
	·		Ex ia IIC T6T4 Ga
Terminal Parameters 92m of cable	Ui = 28V, Ii = 93mA, Pi = 0.65W		Ex ia IIIC T110°CT145°C
	Ci = 35.9nF		
	Li= 66µH	Control Drawing	M06-083-A Overbraided Cable
			M06-084-A PUR Cable
500V Isolation	Units Will Pass A 500V Isolation Test		M06-085-A Silicone Cable
			M06-086-A FR PUR Cable
Standards Applied to Product	EN IEC 60079-0:2018		M06-087-A Various Cables (HS-150IT Only)
	EN 60079-11:2012		
		Barrier	1 x Pepperl + Fuchs Galvanic Isolator
	IEC 60079-0 Edition 7 2017		KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	IEC 60079-11 Edition 6 2011	1 x	MTL Zener Barrier MTL7728+ (BAS01ATEX7217)
			or Pepperl + Fuchs Zener Barrier
			Z728 (BAS01ATEX7005) or any other barrier that
			conforms with the terminal parameters

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