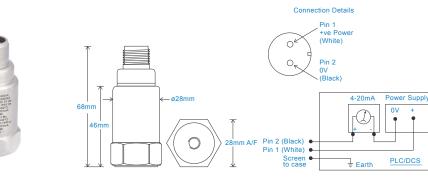
HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via 2 Pin MS Connector

Key Features

- Intrinsically Safe with European, USA, Australian and South
- African approvals
- For use with PLC/DCS systems Customisable features

Industries

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



Technical Performance

Mounted Base Resona	nce 5kHz min
Velocity Ranges	see: 'How To Order' table ±10%
	Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	150gms (nominal)
Screened Cable Asssembly	see: www.hansfordsensors.com for options
Connector	HS-AA004 - non-booted
	HS-AA053 or HS-0054 - booted
Mounting Threads	see: 'How To Order' table

Electrical

Current Output 4-20mA DC proportional to Velocity Range Supply Voltage 15-30 Volts DC (for 4-20mA) Settling Time 2 seconds Output Impedance Loop Resistance 600 Ohms max. at 24 Volts Case Isolation >108 Ohms at 500 Volts

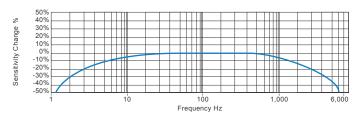
Environmental

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

see: attached certification details IP68 5000g EN61326-1:2013

Typical Frequency Response



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













www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice TS416.9

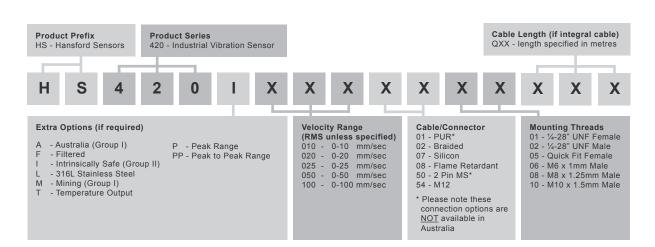


HS-420I/M Intrinsically Safe Accelerometer 4-20mA velocity output via 2 Pin MS Connector

	~ ~	
Intrinsically	v Safe	Requirements
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	TC/15/FAI/01350
Maximum Cable Length nominal 100 metres US/Canada Approvals Certificate No. US see attached system drawings Class I, II, III, Division 1, 2, Groups A - G, T6, -40°	
Class I, Zone 0, AEx, ia, IIC, T6, Ga	
Certificate details: Group I + II IECEx BAS08.0034X Zone 20, AEx, ia, IIIC, T80°C, IP65, Da	
Baseefa08ATEX0086X	a, -+0 C to +00 C
©II 1GD Barrier 1 x Pepperl + Fuchs	Galvania Isolator
Ex ia IIC T6 Ga KFD2-STC4-Ex1, which	
Ex ia IIIC T80°C IP65 Da KFD2-CR-Ex1.30300 (B	
	system drawings
Ex ia I Ma	system drawings
$(-40^{\circ}C \le Ta \le +60^{\circ}C)$ 1 x MTL Zener Barrier MTL7787+ (E	AS01ATEX7217)
	chs Zener Barrier
Accelerometer System Certificate Baseefa08Y0087 Z787 (BAS01ATEX7005) or any	
Ex ia IIC T6 (-40°C \leq Ta \leq +60°C) conforms to system d	
*On request - consult Sales Office	annige attached
System Connections for Zener Barrier see attached	system drawings
Terminal Parameters Ui = 28V, Ii = 115mA, Pi = 0.65W Group II	
Ui = 16.5V Pi = 0.65W System Connections for Galvanic Isolator see attached	system drawings
or Ui = 28V Ii = 115mA Pi = 0.65W Group I	
Terminal Parameters	Ui = Vmax = 28V
500V Isolation Units Will Pass A 500V Isolation Test	i = Imax = 115mA
	Pi = 0.65W
Certified Temperature Range Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas)	
Ex ia IIIC T80°C IP65 Da (-40°C ≤ Ta ≤ +60°C) (Dust) Notes: Special conditions of safe use	for Group II dust.
Ex ia I Ma (-40° C \leq Ta $\leq +60^{\circ}$ C) (Mining) The free end of the cable on	the integral cable
version of the apparatus must	t be terminated in
Australia Approval Group 1 IECEx ITA 10.0003X an appropriately certified dust	-proof enclosure.
Ex ia I Ma The unit has no s	serviceable parts.
(-40°C ≤ Ta ≤ +60°C)	
South African Approval Certificate No. MASC MS/16-0229X	
Group I and II (As Baseefa/ATEX)	

How To Order





www.hansfordsensors.com sales@hansfordsensors.com

