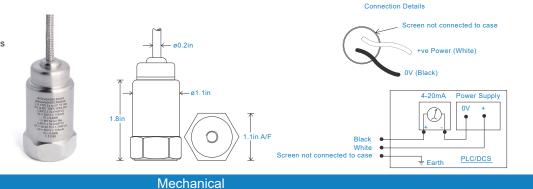
HS-422I/M Intrinsically Safe Accelerometer 4-20mA acceleration output via Braided Cable

Key Features

- · Intrinsically Safe with European, USA, Australian, South African, and Indian approvals
- Approved SIL 2 and SIL 3
- · For use with PLC/DCS systems
- Customisable features

Industries

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



Technical Performance

Mounted Base Resonance	10kHz min
Acceleration Ranges	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 300kcpm (5kHz) ± 5%
	- ISO10816
Isolation	Base isolated
Range	50g peak
Transverse Sensitivity	Less than 5%

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Weight	5.2 oz. (nominal)
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Sheilded Cable	Braided - length to be specified with order
Mounting Threads	see: 'How To Order' table

Electrical

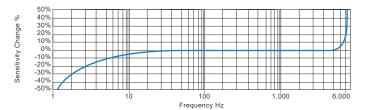
Current Output 4-20mA DC proportional to acceleration Supply Voltage 15-30 Volts DC (for 4-20mA) Settling Time 2 seconds Loop Resistance 600 Ohms max. at 24 Volts **Output Impedance** >108 Ohms at 500 Volts Case Isolation

Environmental

Operating Temperature Range Sealing Maximum Shock EMC

see: attached certification details IP65 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













This product is certified in accordance with UL 913, 8th Ed. Rev. December 6, 2013 CAN/CSA C22.2 No. 157-92 (R2012) +Upd1 +Upd2



www.hansfordsensors.com sales@hansfordsensors.com

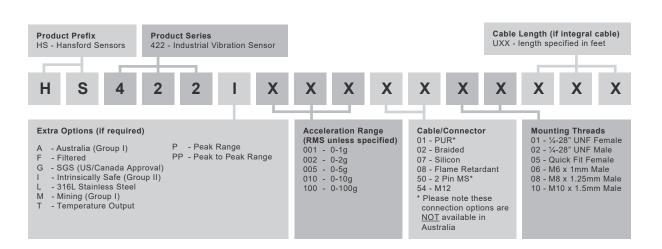
We reserve the right to alter the specification of this product without prior notice TS065U.13



HS-422I/M Intrinsically Safe Accelerometer 4-20mA acceleration output via Braided Cable

Intrinsically Safe Re	quirements	
Maximum Cable Length	nominal 100 metres	US/Canada Approvals Certificate No. SGSNA/18/SUW/0000231
	see attached system drawings	Class I, II, III, Division 1, 2, Groups A - G, T4, -40°C to +110°C,
	, , ,	Class I, Zone 0, AEx, ia, IIC, T4, Ga, -40°C to +110°C
Certificate details: Group I	+ II IECEx BAS08.0034X	Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -40°C to +110°C
	Baseefa08ATEX0086X	
	©II 1GD	Barrier 1 x Pepperl + Fuchs Galvanic Isolator
	Ex ia IIC T6 Ga	KFD2-STC4-Ex1, which has superseded
	Ex la IIIC T80°C IP65 Da	KFD2-CR-Ex1.30300 (BAS00ATEX7164)
	۵ L M1	see attached system drawings
	Ex ia I Ma	see attaoned system drawings
	(-40°C ≤ Ta ≤ +60°C)	1 x MTL Zener Barrier MTL7787+ (BAS01ATEX7217)
		or Pepperl + Fuchs Zener Barrier
Certificate details: Group II	Ex ia IIC T4 Ga	Z787 (BAS01ATEX7005) or any other barrier that
	Ex ia IIIC T130°C IP65 Da	conforms to system drawings attached
	$(-40^{\circ}C \le Ta \le +110^{\circ}C)$	
	(-40 0 3 18 3 +110 0)	System Connections for Zener Barrier see attached system drawings
Accelerometer System Cert	ificate Baseefa08Y0087	,
Acceleronneter bystem Cen	Ex ia IIC T6 (-40°C \leq Ta \leq +60°C)	System Connections for Galvanic Isolator see attached system drawings
	*On request - consult Sales Office	, , , ,
	on request - consult ould's onloc	Terminal Parameters Ui = Vmax = 28V
Terminal Parameters	Ui = 28V, li = 115mA, Pi = 0.65W Group II	li = Imax = 115mA
Terminar Faraneters	Ui = 16.5V Pi = 0.65W	Pi = 0.65W
	or Ui = 28V li = 115mA Pi = 0.65W Group I	11-0.000
		Notes: Special conditions of safe use for Group II dust.
500V Isolation	Units Will Pass A 500V Isolation Test	The free end of the cable on the integral cable
	Units will Pass A 500V Isolation Test	version of the apparatus must be terminated in
Certified Temperature Rand	le Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +60°C) (Gas)	an appropriately certified dust-proof enclosure.
Continue remportation rang	Ex ia IIC T4 Ga (-40°C \leq Ta \leq +110°C) (Gas)	The unit has no serviceable parts.
Ex ia III	C T80°C IP65 Da (-40°C ≤ Ta ≤ +60°C) (Dust)	
Ex ia IIIC	T130°C IP65 Da (-40°C ≤ Ta ≤ +110°C) (Dust)	
	Ex ia I Ma (-40°C ≤ Ta ≤ +60°C) (Mining)	
Australia Approval Group 1	IECEx ITA 10.0003X	
	Ex ia I Ma	
	(-40°C ≤ Ta ≤ +60°C)	
	`````	
South African Approval	Certificate No. MASC MS/16-0229X	
	Group I and II (As Baseefa/ATEX)	
	, , , , , , , , , , , , , , , , , ,	

#### How To Order





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