HS-423I Intrinsically Safe Accelerometer 4-20mA acceleration and AC acceleration output via Silicon Cable

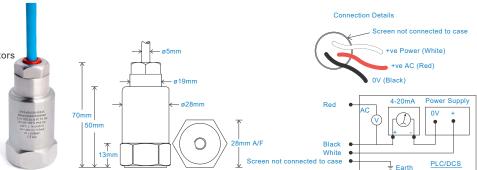
Less than 5%

Kev Features

- · Intrinsically Safe with European approval
- For use with PLC/DCS systems and data collectors
- Waterproof

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 22°C 10Hz (600cpm) to 5kHz (300kcpm) ± 5% Frequency Response: 4-20mA - ISO10816 Frequency Response: AC 2Hz (120cpm) to 10kHz (600kcpm) ± 5% - ISO10816 Isolation Base isolated see: 'How To Order' table

Mechanical

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

Electrical

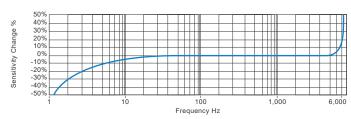
Transverse Sensitivity

Current Output 4-20mA DC current proportional to acceleration and AC acceleration Bias Voltage 3 Volts DC (nominal) 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

Operating Temperature Range see: attached certification details Sealing IP68 Maximum Shock 5000g **EMC** EN61326-1:2013

Typical Frequency Response (4-20mA signal)



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









HS-4231 Intrinsically Safe Accelerometer 4-20mA acceleration and AC acceleration output via Silicon Cable

Intrinsically Safe Requirements

Maximum Cable Length	See website: www.hansfordsensors.com.cn	Barrier: 4-20mA loop	1x Pepperl + Fuchs Galvanic Isolator
			KFD2-STC5-Ex1 (HS-AA154)
Certificate details: Group II	IECEx BAS08.0034X		1 x MTL Zener Barrier MTL7787+ (HS-AA022)
	Baseefa08ATEX0086X		
	®II 1GD	Barrier: AC output	1x Pepperl + Fuchs Galvanic Isolator
	Ex ia IIC T6 Ga		KFD2-VR-Ex1.19 (HS-AA155)
	Ex ia IIIC T80°C IP65 Da		1 x MTL Zener Barrier MTL7764+ (HS-AA023)
	(-40°C ≤ Ta ≤ +55°C)		
Certificate details: Group II	©II 1GD	Terminal Parameters	Ui = Vmax = 28V
	Ex ia IIC T4 Ga		li = lmax = 115mA
	Ex ia IIIC T130°C IP65 Da		Pi = 0.856W
	(-40°C ≤ Ta ≤ +105°C)		
		Notes:	Special conditions of safe use for Group II dust.
Terminal Parameters	Ui = 28V, Ii = 115mA, Pi = 0.856W Group II		The free end of the cable on the integral cable
			version of the apparatus must be terminated in
500V Isolation	Units Will Pass A 500V Isolation Test		an appropriately certified dust-proof enclosure.
			The unit has no serviceable parts.
Certified Temperature Range	Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C) (Gas)		
	Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +105°C) (Gas)		
Ex ia III	C T80°C IP65 Da (-40°C ≤ Ta ≤ +55°C) (Dust)		
Ex ia IIIC	T130°C IP65 Da (-40°C ≤ Ta ≤ +105°C) (Dust)		

How To Order

