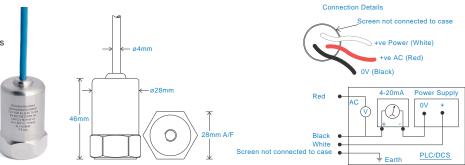
HS-423I Intrinsically Safe Accelerometer 4-20mA acceleration and AC acceleration output via Flame Retardant Cable

Key Features

- Intrinsically Safe with European approval
- · For use with PLC/DCS systems and data collectors
- Low smoke, halogen free cable

Industries

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

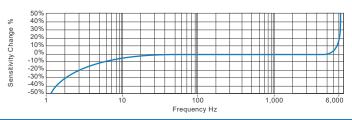


Technical Performance		Mechanical	
Mounted Base Resonance	10kHz min	Case Material	Stainless Steel
Acceleration Ranges	see: 'How To Order' table ±10%	Sensing Element/Constr	ruction PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response: 4-20mA	10Hz (600cpm) to 5kHz (300kcpm) ± 5%	Weight	135gms (nominal) body only
	- ISO10816	Maximum Cable Length	1000 metres
Frequency Response: AC	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Standard Cable Length	5 metres
	- ISO10816	Screened Cable	Flame Retardant - length to be specified with order
Isolation	Base isolated	Mounting Threads	see: 'How To Order' table
Range	see: 'How To Order' table		
Transverse Sensitivity	Less than 5%		

ectrical
ectrical
Couroar

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	>10 ⁸ Ohms at 500 Volts

Typical Frequency Response (4-20mA signal)



Environmental

Operating Temperature Range	see: attached certification details
Sealing	IP65
Maximum Shock	5000g
EMC	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.)



Certifications







www.hansfordsensors.com sales@hansfordsensors.com

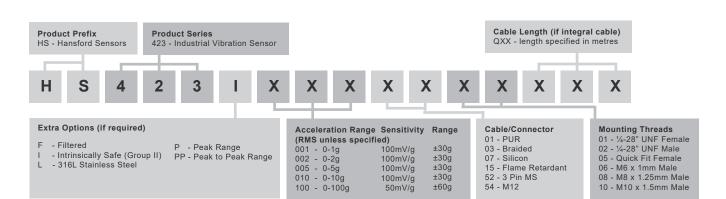


HS-4231 Intrinsically Safe Accelerometer 4-20mA acceleration and AC acceleration output via Flame Retardant Cable

Intrinsically Safe Requirements

Maximum Cable Length	See website: www.hansfordsensors.com	Barrier: 4-20mA loop	1x Deppert + Euche Celvenie legister
Maximum Cable Length	See website. www.nansiordsensors.com	Barrier: 4-2011/(100p	1x Pepperl + Fuchs Galvanic Isolator
Certificate details: Group II			KFD2-STC5-Ex1 (HS-AA154)
Certificate details. Group fi	IECEx BAS08.0034X		1 x MTL Zener Barrier MTL7787+ (HS-AA022)
	Baseefa08ATEX0086X	D 1 40 4 4	
	الا	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 = Imax = 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, li = 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 Rang	e Ex ia IIC T6 Ga (-40°C ≤ Ta ≤ +55°C) (Gas)		The unit has no serviceable parts.
Certified Temperature Rang			
	Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +105°C) (Gas)		
	IC 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





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