HS-100IS Intrinsically Safe Accelerometer AC acceleration output via Silicon Cable

Key Features

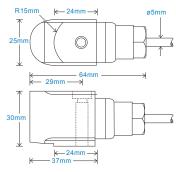
· Intrinsically Safe with European, USA, South African and Australian approvals

Side entry for easy access

Industries

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





Connection Details



IP68

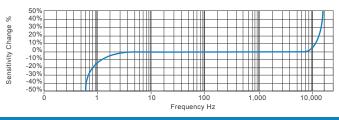
5000g

EN61326-1:2013

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt Provided	see: 'How To Order' table x 30mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	185gms (nominal)
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Silicon - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Submersible Depth	100 metres max (10 bar)

Electrical		Environmental
Electrical Noise	0.1mg max	Operating Temperature Range
	0	
Current Range	0.5mA to 8mA	Sealing
Bias Voltage	10 - 12 Volts DC	Maximum Shock
Settling Time	2 seconds	EMC
Output Impedance	200 Ohms max.	
Case Isolation	>10 ⁸ Ohms at 500 Volts	

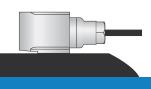
Typical Frequency Response (at 100mV/g)



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.)



see: attached certification details

Certifications













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We reserve the right to alter the specification of this product without prior notice TS042.15

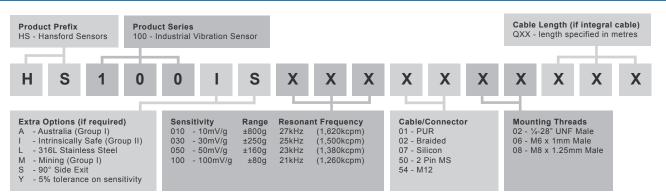


HS-100IS Intrinsically Safe Accelerometer AC acceleration output via Silicon Cable

Intrinsically Safe Requirements							
Maximum Cable Length	Up to 300 metres dependent on cable	Certified Temperature Range Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +60°C) (Ga		(-55°C ≤ Ta ≤ +60°C) (Gas)			
5	- see attached system drawing	Ex ia IIIC T80°C IP65 Da (-55°C \leq Ta \leq +60°C) (Dust					
	, , ,	Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +110°C) (Gas)*		55°C ≤ Ta ≤ +110°C) (Gas)*			
Certificate details: Group I	IECEx BAS07.0037X		Ex ia IIIC T130°C IP65 Da (-5	5°C ≤ Ta ≤ +110°C) (Dust)*			
	Baseefa07ATEX0149X		Ex ia I Ma (-55	$^{\circ}C \leq Ta \leq +110^{\circ}C)$ (Mining)			
	۵ IM1		*On request - consult Sales Offic				
	Ex ia I Ma						
	(-55°C ≤ Ta ≤ +110°C)	Australia Approv	al Group I	IECEx ITA 11.0013X			
				Ex ia I Ma			
Certificate details: Group II	IECEx BAS07.0035X	(-55°C ≤ Ta ≤ +110		(-55°C ≤ Ta ≤ +110°C)			
(ignition temperature 130°C)	Baseefa07ATEX0144X						
	🖾 II 1GD	US/Canada Appr	rovals Certificat	te No. USTC/15/FAI/01350			
	Ex ia IIC T4 Ga	Class I, II, III, Division 1, 2, Groups A - G, T4, -55°C to +110°C, IP6		, T4, -55°C to +110°C, IP65			
	Ex ia IIIC T130°C IP65 Da		Class I, Zone 0, AEx, ia, II	C, T4, Ga, -55°C to +110°C			
	(-55°C ≤ Ta ≤ +110°C)	Zone 20, AEx, ia, IIIC, T130°C, IP65, Da, -55°C to +110°C		IP65, Da, -55°C to +110°C			
Certificate details: Group II	IECEx BAS07.0035X	Class I, II, III, Division 1, 2, Groups A - G, T6, -55°C to +60°C		s A - G, T6, -55°C to +60°C			
(ignition temperature 80°C)	Baseefa07ATEX0144X	Class I, Zone 0, AEx, ia, IIC, T6, Ga, -55°C to +60°C					
	🐵 II 1GD	Zone 20, AEx, ia, IIIC, T80°C, IP65, DA, -55°C to +60°C		s, IP65, DA, -55°C to +60°C			
	Ex ia IIC T6 Ga						
	Ex ia IIIC T80°C IP65 Da	South African Ap	1	ate No. MASC S/16-0231X			
	(-55°C ≤ Ta ≤ +60°C)		0	Group II (As Baseefa/ATEX)			
				MASC M/16-0230X			
Accelerometer System Certificate	Baseefa07Y0145			Group I (As Baseefa/ATEX)			
	Ex ia IIC T6 (-55°C ≤ Ta ≤ +60°C)						
	Ex ia IIC T4 (-55°C ≤ Ta ≤ +110°C)	System Connect	ions see	e attached system drawings			
	On request - consult Sales Office						
		Barrier		rl + Fuchs Galvanic Isolator			
Terminal Parameters	Ui = 28V, Ii = 93mA, Pi = 0.65W			-Ex1.26 (BAS02ATEX7206)			
	Ci = 83nf	see attached system drawings					
	Li/Ri = 15.4µH/Ohm	1 x MTL Zener Barrier MTL7728+ (BAS01ATEX7217)					
				operl + Fuchs Zener Barrier			
500V Isolation	Units Will Pass A 500V Isolation Test		1	05) or any other barrier that			
			conforms to s	ystem drawings on website			
		Neter O					
			ecial conditions of safe use for G				
		the ca	able on the integral cable versio	in of the apparatus must be			

the cable on the integral cable version of the apparatus must be terminated in an appropriate dust-proof enclosure.

How To Order





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