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

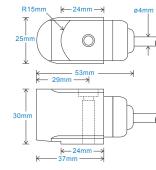
Key Features

- · Intrinsically Safe with European, USA, South African and Australian approvals
- · Side entry for easy access

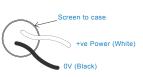
Industries

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





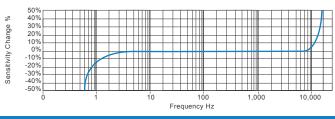




Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 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	Braided - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

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

Typical Frequency Response (at 100mV/g)



Environmental

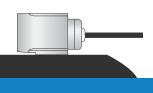
Operating Temperature Range Sealing Maximum Shock EMC

see: attached certification details IP65 5000g 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











CE

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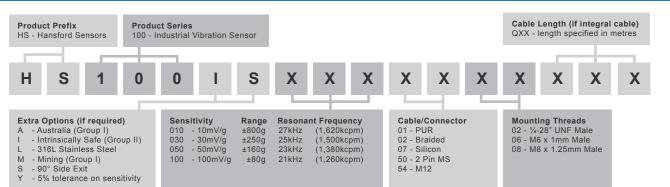
We reserve the right to alter the specification of this product without prior notice TS041.15

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

Intrinsically Safe Requirem	nents		
Maximum Cable Length	Up to 300 metres dependent on cable	Certified Temperature Range Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +60°C) (Gas	s)
, i i i i i i i i i i i i i i i i i i i	- see attached system drawing	Ex ia IIIC T80°C IP65 Da (-55°C ≤ Ta ≤ +60°C) (Dust)	
		Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +110°C) (Gas)*
Certificate details: Group I	IECEx BAS07.0037X	Ex ia IIIC T130°C IP65 Da (-55°C ≤ Ta ≤ +110°C) (Dust)*	
	Baseefa07ATEX0149X	Ex ia I Ma (-55°C \leq Ta \leq +110°C) (Mining)	
	۵ IM1	*On request - consult Sales Offic	ce
	Ex ia I Ma		
	(-55°C ≤ Ta ≤ +110°C)	Australia Approval Group I IECEx ITA 11.0013	ЗX
		Ex ia I M	1a
Certificate details: Group II	IECEx BAS07.0035X	(-55°C ≤ Ta ≤ +110°C	C)
(ignition temperature 130°C)	Baseefa07ATEX0144X		
	🐵 II 1GD	US/Canada Approvals Certificate No. USTC/15/FAI/0135	50
	Ex ia IIC T4 Ga	Class I, II, III, Division 1, 2, Groups A - G, T4, -55°C to +110°C, IP6	65
	Ex ia IIIC T130°C IP65 Da	Class I, Zone 0, AEx, ia, IIC, 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	
Certificate details: Group II	IECEx BAS07.0035X	Class I, II, III, Division 1, 2, Groups 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	
	Ex ia IIC T6 Ga		
	Ex ia IIIC T80°C IP65 Da	South African Approval Certificate No. MASC S/16-0231	Х
	(-55°C ≤ Ta ≤ +60°C)	Group II (As Baseefa/ATE)	X)
		MASC M/16-0230	X
Accelerometer System Certificate	Baseefa07Y0145	Group I (As Baseefa/ATE)	X)
	Ex ia IIC T6 (-55°C \leq Ta \leq +60°C)		
	Ex ia IIC T4 (-55°C ≤ Ta ≤ +110°C)	System Connections see attached system drawing	gs
	On request - consult Sales Office		
		Barrier 1 x Pepperl + Fuchs Galvanic Isolato	
Terminal Parameters	Ui = 28V, Ii = 93mA, Pi = 0.65W	KFD2-VR4-Ex1.26 (BAS02ATEX7206	,
	Ci = 83nf	see attached system drawing	
	Li/Ri = 15.4µH/Ohm	1 x MTL Zener Barrier MTL7728+ (BAS01ATEX7217	'
		or Pepperl + Fuchs Zener Barrie	
500V Isolation	Units Will Pass A 500V Isolation Test	Z728 (BAS01ATEX7005) or any other barrier the	
		conforms to system drawings on websit	te
		Notes: Special conditions of safe use for Group I & II. The free end of	
		the cable on the integral cable version of the apparatus must b	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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