HS-105IS ATEX High Temp. Accelerometer

AC output via Low Noise Cable

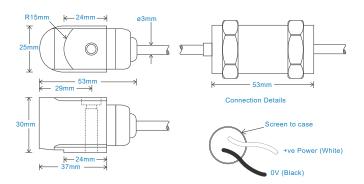
Key Features

- · Intrinsically safe with European and Indian approval
- Includes external charge amplifier
- · Optional temperature ranges
- · Low noise cable

Industries

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





Technical Performance

Mounted Base Resonance see 'How To Order' table (nominal) Sensitivity see: 'How To Order' table ±10% Nominal 80Hz at 22°C 2Hz (120cpm) to 10kHz (600kcpm) ± 5% Frequency Response 1.5Hz (90cpm) to 12kHz (720kcpm) ± 10% 0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB Isolation Base isolated see: 'How To Order' table Range Transverse Sensitivity Less than 5%

Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque Mounting Bolt Provided see: 'How To Order' table x 35mm long 125gms (nominal) Maximum Cable Length 1000 metres see: 'How To Order' table - (20 metres max between sensor and charge amplifier) Mounting Threads see: 'How To Order' table

Electrical

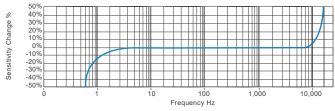
Electrical Noise 0.1mg max Current Range 0.5mA to 8mA Bias Voltage 10 - 12 Volts DC Settling Time 2 seconds 200 Ohms max. Output Impedance Case Isolation >108 Ohms at 500 Volts

Environmental

Operating Temperature Range

Ex ia IIA T2 (-20°C ≤ Ta ≤ +250°C) Accelerometer Ex ia IIA T4 (-20°C ≤ Ta ≤ +80°C) Charge Amplifier 5000a EN61326-1:2013

Typical Frequency Response (at 100mV/g)



Applications

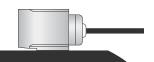
Maximum Shock

Sealing

EMC

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









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HS-105IS ATEX High Temp. Accelerometer AC output via Low Noise Cable

Intrinsically Safe Requiremen	ts		
Maximum Cable Length	100 metres max.	500V Isolation	Units Will Pass A 500V Isolation Test
Certificate details: Group II	IECExBAS09.0157	Barrier	1 x Pepperl + Fuchs Galvanic Isolator
Accelerometer	Baseefa07ATEX0336		KFD2-VR4-Ex1.26 (BAS02ATEX7206)
	®Ⅱ 1G		or equivalent
	Ex ia IIA T2 Ga		
	(-20°C ≤ Ta ≤ +250°C)		1 x MTL Zener Barrier MTL7728+ (BAS01ATEX7217)
			or Pepperl + Fuchs Zener Barrier
Certificate details: Group II	IECExBAS09.0157		Z728 (BAS01ATEX7005) or equivalent
Charge Amplifier	Baseefa07ATEX0336		
	®Ⅱ 1G	Notes:	Special conditions of safe use for Group II.
	Ex ia IIA T4 Ga		The free end of the cable on the integral cable
	(-20°C ≤ Ta ≤ +80°C)		version of the apparatus must be terminated in
			an appropriate enclosure certified flameproof.
Terminal Parameters	Ui = 28V, Ii = 93mA, Pi = 0.65W,		The unit has no serviceable parts.
	Ci = 54 nF, Li = 60µH		

How To Order

