

# Premium Intrinsically Safe Accelerometer

ISTACCSI01




TECHNICAL FEATURES	
Sensitivity	100mV/g 5%
Frequency response	2Hz (120cpm) to 14kHz (840kcpm) ± 5% 1.5Hz (90cpm) to 16kHz (960kcpm) ± 10% 0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB
Isolation	Base isolated
Range	± 80 g
Transverse sensitivity	Less than 5%
Resonance frequency	24 kHz

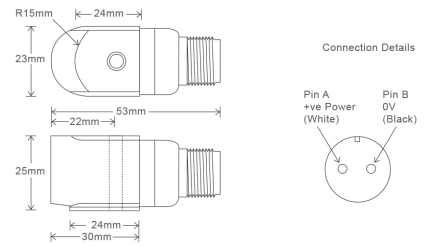
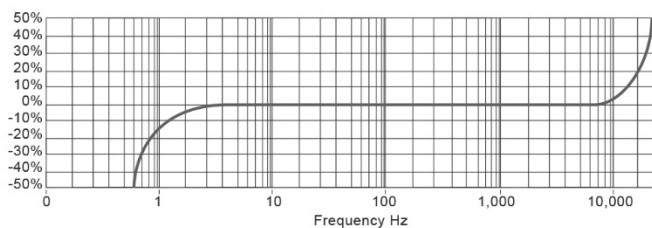
MECHANICAL	
Case material	Stainless steel
Sensing element / construction	PZT / Shear
Mounting torque	8 Nm
Weight	135gms (nominal) body only
Connector	MIL-C-5015 2 pin connector
Mounting threads	¼ 28" UNF Female (for bolt)
Mounting bolt provided	¼ 28" UNF Male

ELECTRICAL	
Electrical noise	0.1 mg max
Current range	0.5mA to 8mA
Bias voltage	10 – 12 Volts DC
Settling time	1 second
Output impedance	200 Ohms max.
Case isolation	>10 <sup>8</sup> Ohms at 500 Volts

ENVIRONMENTAL	
Operating temperature range	See: attached certification details
Sealing	IP68
Maximum shock	5000g
EMC	EN61326-1:2013
Recommended cabling	ISTCABACxx

CERTIFICATES	
IECExBAS20.0030X Baseefa20ATEX0069X Ex II 1GD - Ex ia IIC T6...T4 Ga Ex ia IIIC T135°C Da Ex ia IIIB T110°C...T145°C Da Ex I M1 - Ex ia I Ma	 

## TYPICAL FREQUENCY RESPONSE (AT 100 MV/G)



### KEY FEATURES

- Intrinsically safe
- Premium design with compact housing

### INDUSTRIES

General industrial applications, e.g. chemical, petrochemical, oil and gas, energy, steel, paper and food.

### APPLICATIONS

Turbines, generators, fans, motors, pumps, compressors, gearboxes.

### MOUNTING

Vibration sensor should be firmly fixed to a flat surface.

### Accessories:

- Spot facing tool
- Conical mounting stud

Rev. 1.0

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

