

Premium Intrinsically Safe Accelerometer

ISTACCTI01



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	28 kHz

MECHANICAL

Case material	Stainless steel
Sensing element / construction	PZT / Shear
Mounting torque	8 Nm
Weight	52gms (nominal) body only
Connector	MIL-C-5015 2 pin connector
Mounting threads	¼ 28" UNF Female
Mounting stud provided	¼ 28" UNF Male → Male

ELECTRICAL

Electrical noise	0.1mg 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 ⁸ Ohms at 500 Volts

ENVIRONMENTAL

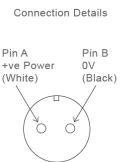
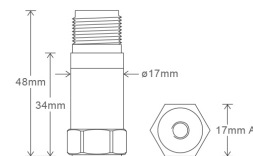
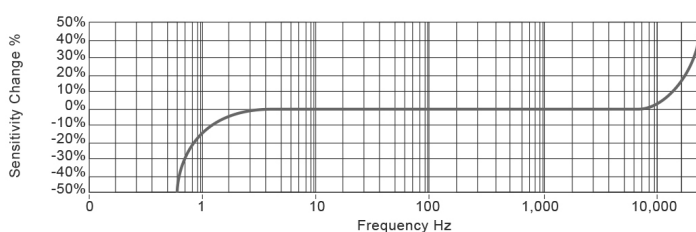
Operating temperature range	See: attached certification details
Sealing	IP68
Maximum shock	5000g
EMC	EN61326-1:2013
Recommended cabling	ISTCABACxx

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. (spot face surface may be needed to be produced and cable anchored to sensor body)

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.

