

MTN/1100IS & M1100IS Series

Intrinsically Safe Industrial Accelerometer
ATEX & IECEx Group I & II Approved

Applications

- General industry
- Compressors, pumps, etc.
- Oil, petrochemical & mining

Technical Specification

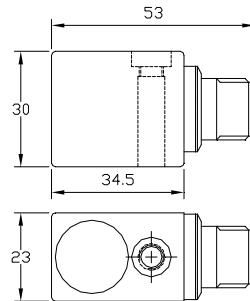
Standard Sensitivity
Frequency Response
Mounted Base Resonance
Isolation
Transverse Sensitivity
Electrical Noise
Current Range
Bias Voltage
Temperature Range For

Case Material
Weight
Sealing
Mounting Torque
Maximum Cable Length
Certificate Details: Group I

Certificate Details: Group II

*Warning ref Group II: The Ci and Li were previously lower.
The installer must take account of the increase in internal capacitance and inductance present on this apparatus*

System Connection
Terminal Parameters
500V Isolation
Barrier



100 mV/g $\pm 10\%$ Nominal at 80 Hz

2 Hz to 10 kHz $\pm 5\%$ (-3 dB at 0.8 Hz)

18 kHz (nominal)

Base isolated

Less than 5%

0.1 mg max

0.5 mA to 8 mA

12 Volts DC (nominal)

T4 (-55°C \leq Ta \leq +115°C)

T6 (-55°C \leq Ta \leq +65°C)

Stainless steel

140 gms (nominal)

IP67

8Nm

See system drawing ATX027

Baseefa02ATEX0245X IECEx BAS 08.0013X

Ex I M1 Ex ia I (-55°C \leq Ta \leq +115°C)

BAS02ATEX1057X IECEx BAS 08.0013X

Ex II 1GD T135°C Ex ia IIC T4 (-55°C \leq Ta \leq +115°C)

Ex II 1GD T85°C Ex ia IIC T6 (-55°C \leq Ta \leq +65°C)

Drawing ATX027

Ui = 28V, li = 93mA, Pi = 0.65W see certificate for Ci & Li

Units will pass a 500V isolation test

1 x MTL7728+ (BAS01ATEX7217) or (P&F Z728
BAS01ATEX7005) or any other barrier that conforms to
note 5 of ATX027

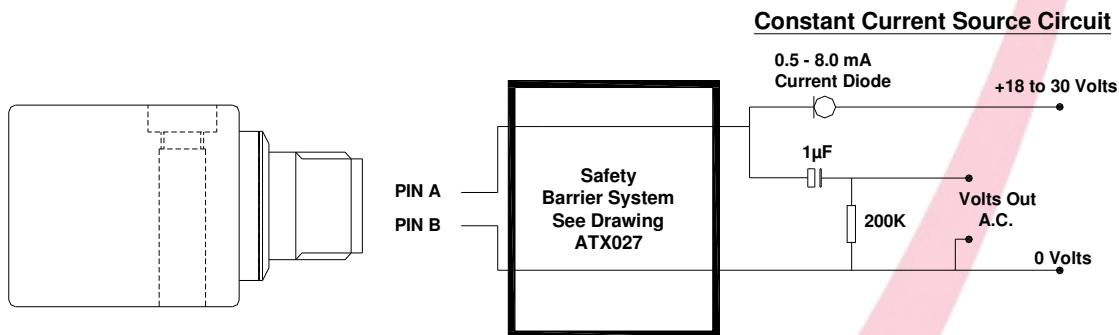
Mounting and Sensitivity

ORDER CODE PART No	MOUNTING BOLT PROVIDED	xx = OPTIONAL SENSITIVITY RANGE AVAILABLE ($\pm 10\%$)
MTN/1100IS-xx	1/4"-28 UNF x 33mm	10 mV/g
MTN/1100ISM6-xx	M6 x 35mm	25 mV/g
MTN/1100ISM8-xx	M8 x 28mm	30 mV/g
		50 mV/g

Options

Mating connectors, MH002 (Standard), MH088 (Stainless steel), Dust option (Group II only), other sensitivities (see table), Optional mounting.

Measuring System Connection



Note : Care should be taken not to install this in a high velocity dust laden atmosphere.

Monitran Ltd

Monitor House | 33 Hazlemere Road | Penn | Bucks | HP10 8AD | UK

Tel: +44 (0)1494 816569

Email: info@monitran.com

Registered in England No. 2054040

Fax: +44 (0)1494 812256

Web: www.monitran.com

Vat No. GB442 4883 40

