

## MTN/1100ISC & M1100ISC 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

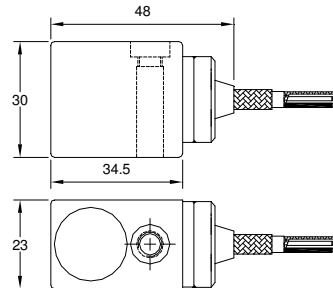
Case Material  
Cable  
Weight  
Sealing  
Mounting Torque  
Maximum Cable Length  
Certificate Details: Group I

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

Integral stainless steel overbraided PTFE

160 gms (nominal)

IP67

8Nm

See system drawing ATX027

Baseefa02ATEX0245X and IECEx BAS 08.0013X

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

BAS02ATEX1057X and 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, Ii = 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

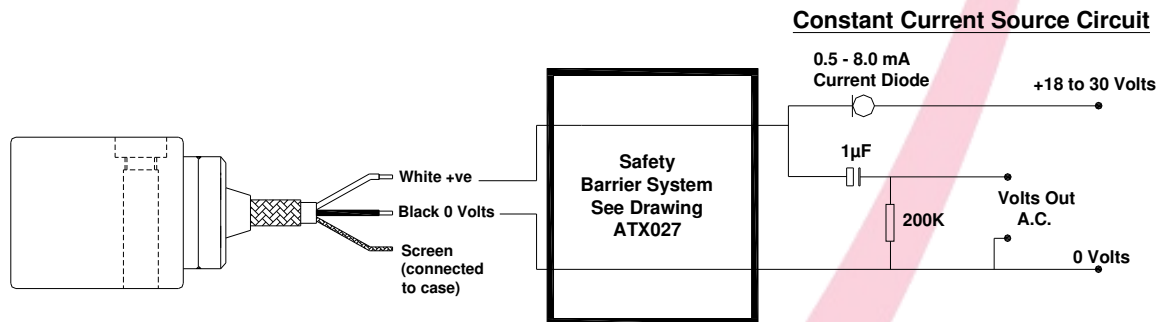
## Mounting and Sensitivity

ORDER CODE PART No	MOUNTING BOLT PROVIDED	xx = OPTIONAL SENSITIVITY RANGE AVAILABLE ( $\pm 10\%$ )
MTN/1100ISC-xx	1/4"-28 UNF x 33mm	10 mV/g
MTN/1100ISCM6-xx	M6 x 35mm	25 mV/g
MTN/1100ISCM8-xx	M8 x 28mm	30 mV/g
		50 mV/g

## Options

Connector, Dust option (Group II only), cable length, Optional mounting, other sensitivities (see table).

## Measuring System Connection



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

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