

MTN/1100IC & M1100IC Series

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

Applications

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

Technical Specification

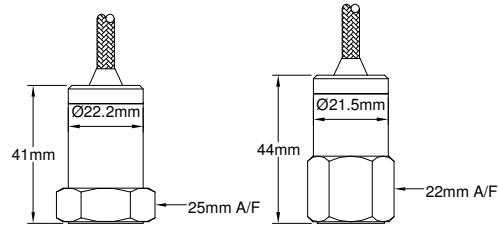
Standard Sensitivity
Frequency Response
Mounted Base Resonance
Isolation
Transverse Sensitivity
Electrical Noise
Current Range
Bias Voltage
Temperature Range For

Case Material
Weight
Sealing
Mounting Torque
Cable
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
110 gms (nominal)
IP67
8Nm
Integral stainless steel overbraided PTFE
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
Ex iaD 20 T135°C (-55°C \leq Ta \leq +115°C)
Ex II 1GD T85°C Ex ia IIC T6
Ex iaD 20 T85°C (-55°C \leq Ta \leq +65°C)
Drawing ATX027
Ui = 28V, li = 93mA, Pi = 0.65W see certificate for
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	xx = OPTIONAL SENSITIVITY RANGE AVAILABLE (+/- 10%)
MTN/1100IC-xx MTN/1100ICQ-xx	1/4" UNF FEMALE QUICK FIT FEMALE	10 mV/g 25 mV/g 30 mV/g 50 mV/g
FOR OTHER MOUNTINGS SEE BELOW.		

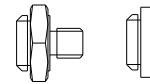
Options	Connector, Dust option (Group II only), cable length, various mounts, other sensitivities (see table)
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Mounting Adapters and Studs

Studs and Grub Screws



Quick Fit Adapters



Male Studs		
Product Code	From	To
MS036	1/4" - 28 UNF	M6
MS039	1/4" - 28 UNF	10 - 32 UNF
MS067	1/4" - 28 UNF	M8
MS068	1/4" - 28 UNF	1/4" - 28 UNF
MS124	1/4" - 28 UNF	M10
MS132	1/4" - 28 UNF	M12

Quick Fit (Q/F)		
Product Code	From	To
MS001	Q/F Male	Glue Base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	1/4" - 28 UNF Male
MS006	Q/F Male	M6 Male

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Email: info@monitran.com

Registered in England No. 2054040

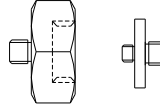
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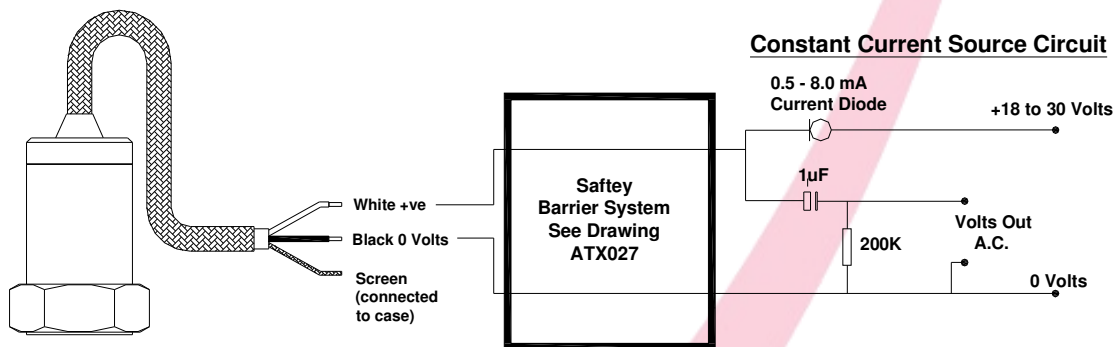
Other Adapters



Mounting Adapters		
Product Code	From	To
MS005	Q/F Male	1/4" - 28 UNF Female
MS007	Q/F Male	10 - 32 UNF Female
MS008	Q/F Male	M8 Female
MS011	1/4" - 28 UNF Male	Q/F Female
MS013	1/4" - 28 UNF Male	Glue Base
MS033	1/4" - 28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	1/4" - 28 UNF Male	10 - 32 UNF Male
MS079	1/4" - 28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

Isolation		
Product Code	From	To
MS034	1/4" - 28 UNF Male	1/4" - 28 UNF Female
MS093	Q/F Male	M8 Male

Measuring System Connection



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

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