

Intrinsically safe industrial accelerometer ATEX & IECEx Group II approved

ATEX and IECEx Group II certified. General purpose top-entry constant current accelerometer with isolated AC output. Made from robust stainless steel throughout for long term vibration analysis in harsh, hazardous gas and dust environments. Sealed to IP67 and includes integral stainless overbraided ETFE cable. Available with a wide range of mountings.

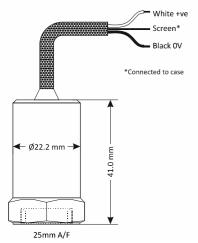
#### **Applications**

- General industry
- Compressors, pumps etc
- Oil and petrochemical
- Mining

# MTN/1100IC



#### **Dimensions**









#### **Technical**

100mV/g ±10% nominal @ 80Hz
2Hz to 10kHz ±5% (-3dB @ 0.8Hz)
18kHz (nominal)
Base isolated
±80g
Less than 5%
0.1mg max
0.5 to 8mA
T4 (-55°C ≤ Ta ≤ +115°C)
T6 (-55°C ≤ Ta ≤ +65°C)
12V DC (nominal)
Stainless steel
Integral stainless steel overbraided ETFE
5m
See system drawing ATX027
8Nm
110g (nominal)
IP67
Units will pass a 500V insulation test

## **Certificate details**

Group II <sup>1</sup>	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)
Terminal parameters	Ui = 28V, Ii = 93mA, Pi = 0.65W For Ci & Li see certificate
Barrier	1 x MTL7728+ (BAS01ATEX7217) or (P&F Z728BAS01ATEX7005) or any other barrier that conforms to note 5 of ATX027



# MTN/1100IC Series

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# Studs and grub screws



Part #	From	То
MS036	¼"-28 UNF Male	M6 Male
MS039	¼"-28 UNF Male	10-32 UNF Male
MS067	¼"-28 UNF Male	M8 Male
MS068	¼"-28 UNF Male	1/4"-28 UNF Male
MS124	¼"-28 UNF Male	M10 Male
MS132	¼"-28 UNF Male	M12 Male
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# **Quick fit adapters**



Part #	From	То
MS001	Q/F Male	Glue base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	¼"-28 UNF Male
MS006	Q/F Male	M6 Male

## **Mounting adapters**



Part #	From	То
MS005	Q/F Male	1/4"-28 UNF Female
MS007	Q/F Male	10-32 UNF Female
MS008	Q/F Male	M8 Female
MS011	¼"-28 UNF Male	Q/F Female
MS013	¼"-28 UNF Male	Glue base
MS033	¼"-28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	¼"-28 UNF Male	10-32 UNF Male
MS079	¼"-28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

#### **Isolation**

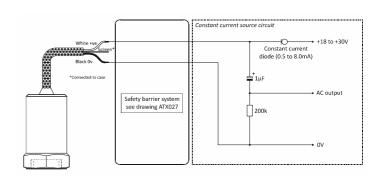
_	Part #	From	То
	MS034	¼"-28 UNF Male	¼"-28 UNF Female
	MS093	Q/F Male	M8 Male

### **Options**

- Cable length
- Various mounts
- Connector
- Dust option (Group II only)
- Other sensitivities (see below)

Part #	Mounting	xx = Optional Sensitivity (mV/g)
MTN/1100IC-xx		10
	¼" UNF Female	20
		25
		30
		50
MTN/1100ICQ-xx	Q/F Female	500
		1000

## **System connection**



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



<sup>&</sup>lt;sup>1</sup> 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.