

ATEX and IECEx Group I & 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. 3 wire device, requires 24V supply. Sealed to IP67 and includes stainless steel overbraided ETFE cable and is available with a wide range of mountings.

## Applications

- General Industry
- Compressors, Pumps, etc
- Oil, Petrochemical

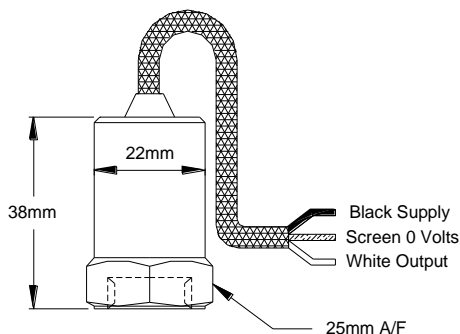
## MTN/1107IC



## Technical

Standard Sensitivity	100 mV/g +/-10% nominal at 80 Hz
Frequency response	2Hz to 10kHz ±5% (-3 dB at 0.8 Hz)
Mounted base resonance	18kHz (nominal)
Isolation	Base isolated
Transverse sensitivity	Less than 5%
Electrical Noise	0.1 mg max
Supply Voltage	+15 to +28 VDC
Bias Voltage	8 Volts DC (nominal)
Temperature Range	-55 °C to 135 °C
Case Material	Stainless Steel
Cable	Integral S/S overbraided ETFE
Standard Cable Length	5 metres
Maximum cable length	See system drawing ATX008
Weight	110g (nominal)
Sealing	IP67

## Dimensions



## Certificate Details

Group II<sup>1</sup>  
BAS02ATEX1057, EEx ia IIB T4  
Ex II 1GD T45°C

Terminal parameters  
 $U_i = 28V$ ,  $I_i = 300mA$ ,  $P_i = 1.3W$   
For Ci and Li see certificate

Barrier  
MTL 728, BAS01ATEX7202 The output current of each barrier must be limited by a resistor "R" that:  
 $I_o = U_o / R$  or any other barrier that conforms to Notes 4 & 5 of drawing ATX008 sheets 1 – 4  
(Available on request)



## Studs and grub screws



Part #	From	To
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	¼"-28 UNF Male
MS124	¼"-28 UNF Male	M10 Male
MS132	¼"-28 UNF Male	M12 Male

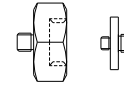
## Quick fit adapters



Part #	From	To
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

Part #	Mounting	Optional Sensitivity Range Available (+/-10%)
MTN/1107IC-xx	¼" UNF Female	0-10 0-30
MTN/1107ICQ-xx	Q/F Female	0-50

## Mounting adapters



Part #	From	To
MS005	Q/F Male	¼"-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	To
MS034	¼"-28 UNF Male	¼"-28 UNF Female
MS093	Q/F Male	M8 Male

## Barrier connection (For more detailed connection information please request system drawing ATX008)

