

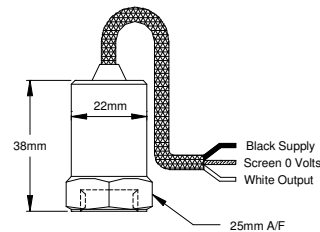


## MTN/1109IC & M1109IC SERIES

Intrinsically safe industrial accelerometer  
Atex Group I & II approved

### Applications

- General industry
- Compressors, pumps, etc.
- Oil, Petrochemical, Mining
- API 670



### Technical Specification

Standard Sensitivity	100 mV/g $\pm 10\%$ nominal at 80 Hz
Frequency Response	2 Hz to 10 kHz $\pm 5\%$ (-3 dB at 0.8 Hz)
Mounted Base Resonance	18 kHz (nominal)
Isolation	Base isolated
Transverse Sensitivity	Less than 5%
Electrical Noise	0.1 mg max
Supply Voltage	-24V DC
Bias Voltage	-12 Volts DC (nominal)
Temperature Range	-55 to 140 °C
Case Material	Stainless steel
Cable	Integral stainless steel overbraided PTFE
Weight	110 gms (nominal)
Sealing	IP67
Certificate Details: Group I	EEx ia I, BAS02ATEX0245
Group II	EEx ia IIC T4, BAS02ATEX1057
System Connection	Drawing ATX014 (Group II only)
Barrier	1 x MTL5031 Isolator to BAS01ATEX7151 or any other barrier that conforms to Note 4 of drawing ATX014
Options	Cable length, Dust option (Group II only), various mounts, other sensitivities (see table)

ORDER CODE PART No	MOUNTING	xx = OPTIONAL SENSITIVITY RANGE AVAILABLE ( $\pm 10\%$ )
MTN/1109I-xx MTN/1109IQ-xx	1/4" UNF FEMALE QUICK FIT FEMALE	10 mV/g 30 mV/g 50 mV/g
FOR OTHER MOUNTINGS SEE OVER PAGE.		

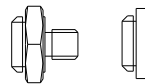
# Mounting Adapters and Studs

## Studs and Grub Screws



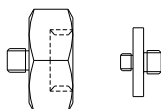
Male Studs		
Product Code	From	To
MS036	1/4" - 28 UNF	M6
MS039	1/4" - 28 UNF	10 - 32 UNF
MS067	1/4" - 28 UNF	M8
MS068	1/4" - 28 UNF	1/4" - 28 UNF
MS124	1/4" - 28 UNF	M10
MS132	1/4" - 28 UNF	M12

## Quick Fit Adapters



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

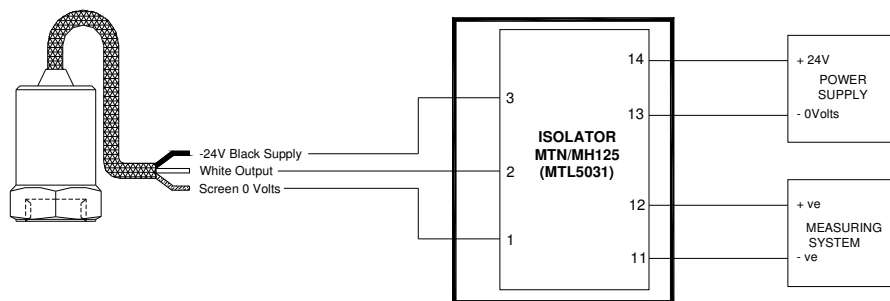
## Other Adapters



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

## Barrier Connection (For more detailed connection information please request system drawing ATX014)



Barrier Enclosures		
Product Code	Type	Capacity
MTN/MH126	DX070	4 Barrier Capacity
MTN/MH127	DX170	10 Barrier Capacity
MTN/MH128	DX430	26 Barrier Capacity