

## MTN/1187IC & M1187IC Series

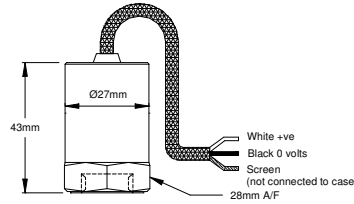
Intrinsically Safe Industrial 4-20mA Acceleration Transducer  
ATEX & IECEx Group I & II Approved

### Applications

- Intrinsically safe data-collector
- Oil & mining
- Fans, compressors, pumps, etc.

### Technical Specification

Output Current	4-20mA DC proportional to RMS acceleration (g)
Velocity Range	See table below
Frequency Response	2 Hz to 1 kHz $\pm 10\%$
Mounted Resonance	5 kHz min
Isolation	Base isolated
Operating Temp Range	-25 to 90 °C
Temperature Sensitivity	0.08 %/°C
Transverse Sensitivity	Less than 5%
Supply Voltage	12-32 Volts DC (4-20 mA)
Standard Cable	5 metres armoured PTFE
Maximum Cable Length	See system drawing ATX009
Case Material	Stainless steel
Weight	150 gms (nominal)
Sealing	IP67
Mounting Torque	8Nm
Certificate Details: Group I	Ex ia I Baseefa02ATEX0245 and IECEx BAS 08.0013X
Certificate Details: Group II	Ex ia IIC T6 BAS02ATEX1057 and IECEx BAS 08.0013X
System Connection	Drawing ATX009
Barrier	MTL787S, BAS01ATEX7202 or P&FZ787, BAS01ATEX7005 or any other barrier that conforms to note 4 of ATX009.
Options	Ranges, Dust option (Group II only), mounting threads, other cable lengths



ORDER CODE PART No	MOUNTING	xx = ACCELERATION RANGE AVAILABLE (+/- 10%)
MTN/1187IC-xx	1/4" UNF FEMALE	0-1g RMS
MTN/1187ICQ-xx	QUICK FIT FEMALE	0-2 g RMS
		0-5 g RMS
FOR OTHER MOUNTINGS SEE OVER PAGE.		0-10 g RMS
		0-20 g RMS

Monitran Ltd

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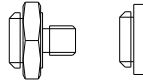
## Mounting Adapters and Studs

### Studs and Grub Screws



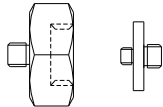
Male Studs		
Product Code	From	To
MS036	1/4" - 28 UNF	M6
MS039	1/4" - 28 UNF	10 - 32 UNF
MS067	1/4" - 28 UNF	M8
MS068	1/4" - 28 UNF	1/4" - 28 UNF
MS124	1/4" - 28 UNF	M10
MS132	1/4" - 28 UNF	M12

### 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

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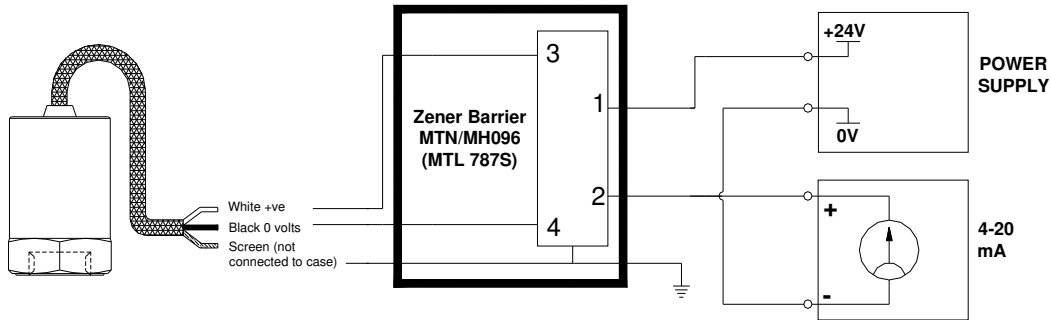
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## Barrier System Connection



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

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