
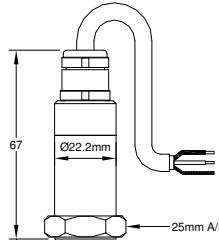


MTN/1187IW & M1187IW 
 Intrinsically Safe Industrial Accelerometer
 ATEX & IECEx Group I & II Approved
 Not to be mounted in a high velocity dust laden atmosphere

Applications

- Intrinsically Safe Data-Collector
- Oil & Mining
- Submersible Pumps, Fans, Compressors etc.



Technical Specification

| | |
|-------------------------|--|
| Output Current | 4-20mA DC proportional to RMS acceleration (g) |
| Velocity Range | See table on Page 2 |
| 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 Integral Polyurethane Cable |

Warning ref Group II: This cable has additional hosing around it manufactured from PTFE plastic, which has a surface resistivity of greater than 1 Gohm and therefore poses a risk from electrostatic ignition. Care should be taken not to install the cable in a high velocity, dust laden atmosphere

| | |
|----------------------|--|
| Maximum Cable Length | See system drawing ATX031 |
| Case Material | Stainless steel |
| Weight | 150 gms (nominal) |
| Submersible Depth | 100 metres maximum (10 bar) |
| Sealing | IP68 |
| Mounting Torque | 8 Nm |
| Certificate Details: | Group I Ex ia I Baseefa02ATEX0245 & IECEx BAS 08.0013X Group II Ex ia IIC T6 BAS02ATEX1057 & IECEx BAS 08.0013X |

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 | Drawing ATX031 |
| Barrier | MTL 787S, BAS01ATEX7202 or P&F Z787, BAS01ATEX7005 or any other barrier that conforms to Note 4 of ATX009. |
| Options | Ranges, mounting threads, other cable lengths |

Mounting and Sensitivity

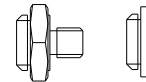
| ORDER CODE PART No | MOUNTING | xx = ACCELERATION RANGE AVAILABLE (+/- 10%) |
|---------------------------------------|-------------------------------------|---|
| MTN/1187IC-xx MTN/1187ICQ-xx | 1/4" UNF FEMALE QUICK FIT FEMALE | 0-1g RMS 0-2 g RMS 0-5 g RMS |
| FOR OTHER MOUNTINGS SEE OVER PAGE. |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

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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Tel: +44 (0)1494 816569

Email: info@monitran.com

Registered in England No. 2054040

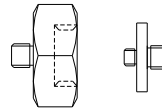
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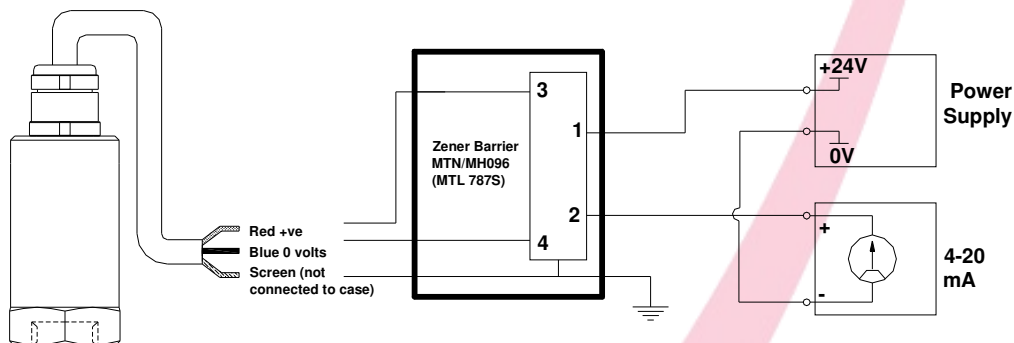
Other Adapters



| 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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