

ATEX and IECEx Group I certified. Submersible, general purpose, top-entry velocity transducer with DC output. Made from robust stainless steel throughout for long term vibration analysis in harsh underwater environments and areas with constant moisture or condensation. Sealed to IP68 and includes integral heavy duty polyurethane cable. Available with a wide range of mountings.

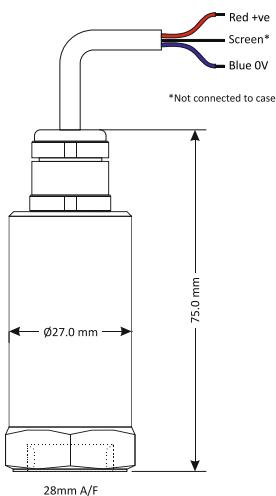
Applications

- Intrinsically safe data collector
- Oil and mining
- Submersible pumps, fans and compressors

MTN/M1185IW



Dimensions



Technical

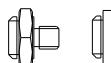
| | |
|----------------------------|--|
| Output current | 4-20mA DC proportional to rms velocity (mm/s) |
| Supply voltage | 12-32V DC (4-20mA) |
| Frequency response | 2Hz to 1kHz $\pm 10\%$ |
| Mounted base resonance | 5kHz (nominal) |
| Isolation | Base isolated |
| Dynamic range | 50g peak |
| Transverse sensitivity | Less than 5% |
| Temperature range | -55°C \leq Ta \leq +115°C |
| Temperature sensitivity | 0.08%/°C |
| Case material | Stainless steel |
| Cable ¹ | Integral polyurethane - length to be specified at point of order |
| Maximum cable length | See system drawing ATX031 |
| Mounting torque | 8Nm |
| Weight | 150g (nominal) |
| Sealing | IP68 |
| Submersible depth | 5m max (0.5 bar) |
| Certificate details | |
| Group I | BAS02ATEX0245X and IECEx BAS 08.0013X Ex ia I Ma (-55°C \leq Ta \leq +115°C) |
| Terminal parameters | Ui = 28V, Ii = 93mA, Pi = 0.65W For Ci and Li see certificate |
| Barrier | MTL7787+, BAS01ATEX7217 or P&FZ787, BAS01ATEX7005 or any other barrier that conforms to note 5 of ATX031 (Available on request) |

Studs and grub screws



| Part # | From | To |
|--------|------------------|------------------|
| MS036 | 1/4"-28 UNF Male | M6 Male |
| MS039 | 1/4"-28 UNF Male | 10-32 UNF Male |
| MS067 | 1/4"-28 UNF Male | M8 Male |
| MS068 | 1/4"-28 UNF Male | 1/4"-28 UNF Male |
| MS124 | 1/4"-28 UNF Male | M10 Male |
| MS132 | 1/4"-28 UNF Male | M12 Male |

Quick fit adapters



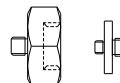
| Part # | From | To |
|--------|----------|------------------|
| MS001 | Q/F Male | Glue base |
| MS002 | Q/F Male | M8 Male |
| MS003 | Q/F Male | M10 Male |
| MS004 | Q/F Male | 1/4"-28 UNF Male |
| MS006 | Q/F Male | M6 Male |

Options

- Various cable lengths
- Optional mountings
- Filters
- Other sensitivities (see below)

| Part # | Mounting | xx = Optional Velocity (mm/s rms) |
|----------------|----------------|---------------------------------------|
| MTN/1185IW-xx | 1/4"UNF Female | 0-10 0-20 0-25 0-50 0-100 |
| MTN/1185IWQ-xx | Q/F Female | |

Mounting adapters

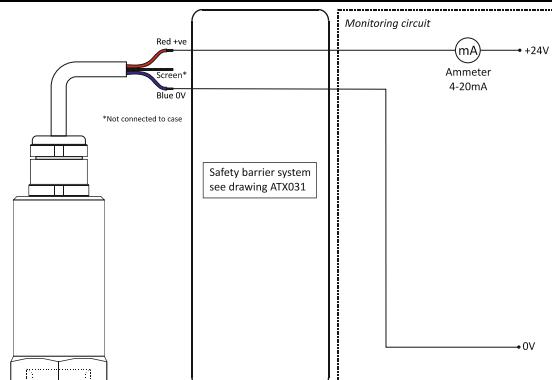


| Part # | From | To |
|--------|------------------|--------------------|
| MS005 | Q/F Male | 1/4"-28 UNF Female |
| MS007 | Q/F Male | 10-32 UNF Female |
| MS008 | Q/F Male | M8 Female |
| MS011 | 1/4"-28 UNF Male | Q/F Female |
| MS013 | 1/4"-28 UNF Male | Glue base |
| MS033 | 1/4"-28 UNF Male | 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

| Part # | From | To |
|--------|------------------|--------------------|
| MS034 | 1/4"-28 UNF Male | 1/4"-28 UNF Female |
| MS093 | Q/F Male | M8 Male |

System connection



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

¹This cable has additional hosing around it manufactured from PTFE plastic, which has a surface resistivity of greater than 1 GΩm and therefore poses a risk from electrostatic ignition.