

ATEX and IECEx Group II certified. Submersible, general purpose, top-entry velocity transducer with DC output. Made from robust stainless steel throughout for continuous vibration monitoring in harsh underwater environments and areas with constant moisture or condensation. Internal electronics are enclosed in a Faraday cage and isolated to minimise noise. Sealed to IP68 with industry standard two-wire 4-20mA output proportional to sensor range that can connect directly to PLC, DCS and other industrial controllers. Includes integral heavy duty polyurethane cable and is available with a wide range of mountings.

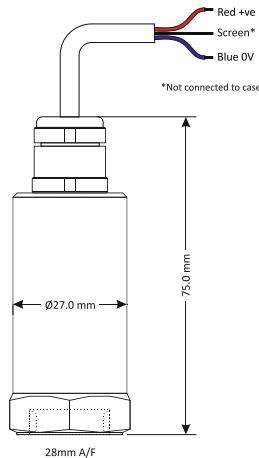
Applications

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

MTN/2285IW



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 ±10 % |
| Mounted base resonance | 5kHz (nominal) |
| Isolation | Base isolated |
| Dynamic range | 50g peak |
| Transverse sensitivity | Less than 5% |
| Temperature range | (-55°C ≤ Ta ≤ +65°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 ATX038 |
| Mounting torque | 8Nm |
| Weight | 150g (nominal) |
| Sealing | IP68 |
| Submersible depth | 5m max (0.5 bar) |
| Insulation | Units will pass a 500V insulation test |

Certificate details

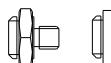
| | |
|-----------------------|--|
| Group II ¹ | BAS02ATEX1057X and IECEx BAS 08.0013X Ex ia IIC T6 Ga (-55°C ≤ Ta ≤ +65°C) Ex ia IIIC T85°C DA (-55°C ≤ Ta ≤ +65°C) |
| Terminal parameters | Ui = 28V, Ii = 93mA, Pi = 0.65W For Ci and Li see certificate |
| Barrier | MTL7787+, BAS01ATEX7217 or P&FZ787, BAS01ATEX7005 or any other barrier that conforms to note 5 of ATX038 (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



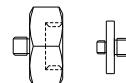
| Part # | From | To |
|--------|----------|------------------|
| MS001 | Q/F Male | Glue base |
| MS002 | Q/F Male | M8 Male |
| MS003 | Q/F Male | M10 Male |
| MS004 | Q/F Male | 1/4"-28 UNF Male |
| MS006 | Q/F Male | M6 Male |

Options

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

| Part # | Mounting | xx = Optional velocity (mm/s rms) |
|----------------|----------------|-----------------------------------|
| MTN/2285IW-xx | 1/4"UNF Female | 0-10 0-20 0-25 |
| MTN/2285IWQ-xx | Q/F Female | 0-50 0-100 |

Mounting adapters

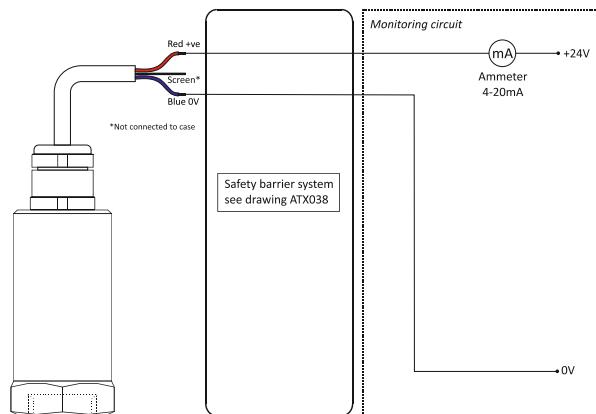


| Part # | From | To |
|--------|------------------|--------------------|
| MS005 | Q/F Male | 1/4"-28 UNF Female |
| MS007 | Q/F Male | 10-32 UNF Female |
| MS008 | Q/F Male | M8 Female |
| MS011 | 1/4"-28 UNF Male | Q/F Female |
| MS013 | 1/4"-28 UNF Male | Glue base |
| MS033 | 1/4"-28 UNF Male |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

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

² 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.