

ATEX and IECEx Group II certified. General purpose, top-entry velocity transducer with DC output. Made from robust stainless steel throughout for continuous vibration monitoring in harsh industrial environments. Sealed to IP67 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 stainless overbraided ETFE cable and is available with a wide range of mountings.

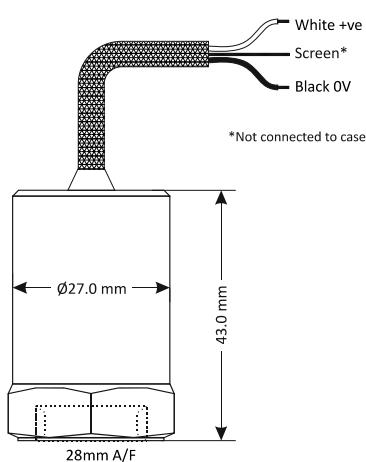
Applications

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

MTN/1185IC



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 for | T6 (-55°C \leq Ta \leq +65°C) |
| Temperature sensitivity | 0.08%/°C |
| Case material | Stainless steel |
| Cable | Integral stainless steel overbraided ETFE |
| Standard cable length | 5m |
| Maximum cable length | See system drawing ATX009 |
| Mounting torque | 8Nm |
| Weight | 150g (nominal) |
| Sealing | IP67 |

Certificate Details

| | |
|-----------------------|---|
| Group II ¹ | BAS02ATEX1057X and IECEx BAS 08.0013X Ex ia IIC T6 Ga (-55°C \leq Ta \leq +65°C) Ex ia IIIC T85°C DA (-55°C \leq Ta \leq +65°C) |
| Terminal parameters | Ui = 28V, Ii = 93mA, Pi = 0.65W For Ci and Li see certificate |
| Barrier | MTL7787+, BAS01ATEX7202 or P&FZ787, BAS01ATEX7005 or any other barrier that conforms to note 4 of ATX009 (Available on request). |

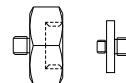
For pricing or any further information, please contact Omni Instruments Ltd.

Studs and grub screws



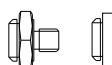
| Part # | From | To |
|--------|------------------|------------------|
| MS036 | 1/4"-28 UNF Male | M6 Male |
| MS039 | 1/4"-28 UNF Male | 10-32 UNF Male |
| MS067 | 1/4"-28 UNF Male | M8 Male |
| MS068 | 1/4"-28 UNF Male | 1/4"-28 UNF Male |
| MS124 | 1/4"-28 UNF Male | M10 Male |
| MS132 | 1/4"-28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

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 |

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

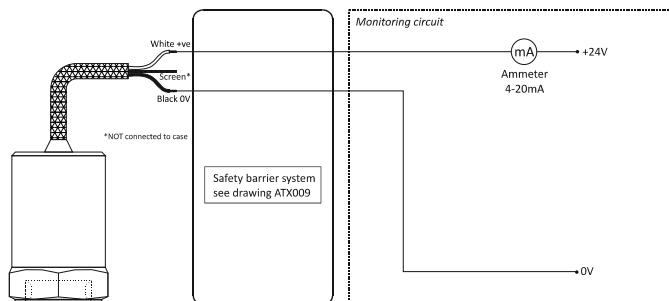
- Dust option (Group II only)
- Filters
- Mounting threads
- Other cable lengths
- Other velocities (see below)

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

¹Warning 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.

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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