MTN/1100ISC Series
Intrinsically safe industrial accelerometer ATEX & IECEx Group II approved

ATEX and IECEx Group II certified. General purpose, side-entry, constant current accelerometer with isolated AC output. Made from robust stainless steel throughout for long term vibration analysis in harsh, hazardous gas and dust environments. Sealed to IP67 and includes integral stainless overbraided ETFE cable. M6, M8 and ¼”-28 UNF mounting bolt also available.

**Applications**
- General industry
- Compressors, pumps etc
- Oil and petrochemical
- Mining

**MTN/1100ISC**

**Technical**

- **Standard sensitivity**: 100mV/g ±10% nominal @ 80Hz
- **Frequency response**: 2Hz to 10kHz ±5% (-3dB @ 0.8Hz)
- **Mounted base resonance**: 18kHz (nominal)
- **Isolation**: Base isolated
- **Transverse sensitivity**: Less than 5%
- **Electrical noise**: 0.1mg max
- **Current range**: 0.5 to 8mA
- **Bias voltage**: 12V DC (nominal)
- **Temperature range for**
  - T4 (-55°C ≤ Ta ≤ +115°C)
  - T6 (-55°C ≤ Ta ≤ +65°C)
- **Case material**: Stainless steel
- **Cable**: Integral stainless steel overbraided ETFE
- **Weight**: 160g (nominal)
- **Sealing**: IP67
- **Mounting torque**: 8Nm
- **Maximum cable length**: See system drawing ATX027
- **Insulation**: Units will pass a 500V insulation test

**Certificate details**

Group II¹

- BAS02ATEX1057X and IECEx BAS 08.0013X
- Ex II 1GD T135°C Ex ia IIC T4 (-55°C ≤ Ta ≤ +115°C)
- Ex II 1GD T85°C Ex ia IIC T6 (-55°C ≤ Ta ≤ +65°C)

**Terminal parameters**

- **Ui = 28V, Li = 93mA, Pi = 0.65W**
  - For Ci & Li see certificate

**Barrier**

- 1 x MTL7728+ (BAS01ATEX7217) or (P&F Z728 BAS01ATEX7005) or any other barrier that conforms to note 5 of ATX027 (Available on request)

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We reserve the right to alter specifications without prior notice.

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Options

- Mating connectors
- Cable length
- Dust option (Group II only)
- Other sensitivities (see below)

<table>
<thead>
<tr>
<th>Part #</th>
<th>Mounting</th>
<th>xx = Optional sensitivity (±10%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTN/1100ISC-xx</td>
<td>¼”-28 UNF x 33mm</td>
<td>10</td>
</tr>
<tr>
<td>MTN/1100ISC6-xx</td>
<td>M6 x 35mm</td>
<td>25</td>
</tr>
<tr>
<td>MTN/1100ISC8-xx</td>
<td>M8 x 28mm</td>
<td>30, 50</td>
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</tbody>
</table>

System connection

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

¹ 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.