

ATEX and IECEx Group II certified. Submersible 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 underwater environments. Internal electronics are isolated to minimise noise with increased bias voltage stability. Sealed to IP68 and includes integral heavy duty polyurethane cable and $\frac{1}{4}$ "-28UNF, M6 or M8 mounting bolt.

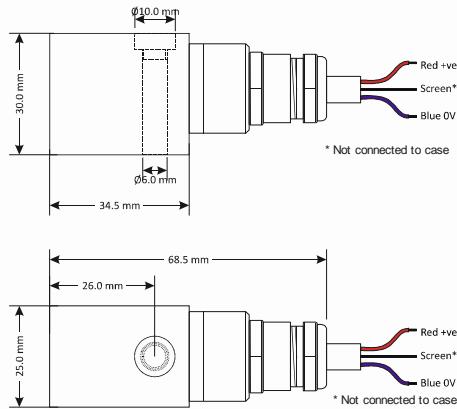
Applications

- General or heavy industry
- Submersible compressors, pumps etc.
- Oil and petrochemical
- Data collection
- Paper machinery
- Air handling units
- Machine tools

MTN/2200ISW



Dimensions



Technical

| | |
|------------------------|---|
| Standard sensitivity | 100mV/g $\pm 10\%$ nominal @ 80Hz |
| Frequency response | 2Hz to 10kHz $\pm 5\%$ (-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 \leq Ta \leq +115°C) T6 (-55°C \leq Ta \leq +65°C) |
| Case material | Stainless steel |
| Weight | 170g (nominal) |
| Sealing | IP68 |
| Mounting torque | 8Nm |
| Submersible depth | 5m max (0.5 bar) |
| Maximum cable length | See system drawing ATX037 |
| Insulation | Units will pass a 500V insulation test |

Certificate details

| | |
|-----------------------|--|
| Group II ¹ | BAS02AEX1057X and IECEx BAS 08.0013X Ex II 1GD T135°C Ex ia IIC T4 (-55°C \leq Ta \leq +115°C) Ex II 1GD T85°C Ex ia IIC T6 (-55°C \leq Ta \leq +65°C) |
| Terminal parameters | Ui = 28V, Ii = 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 ATX037 (Available on request) |

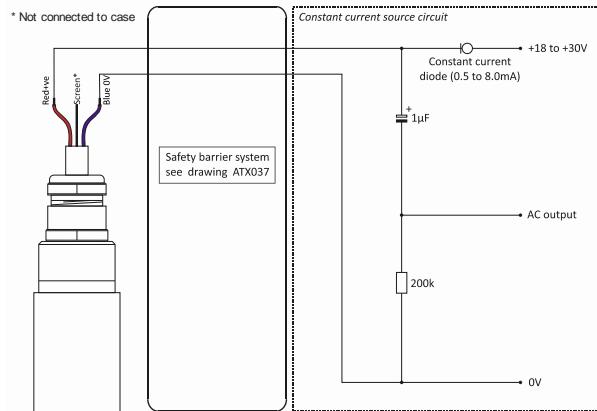


Options

- Mounting bolts (see below)

| Part # | Mounting | xx = Optional sensitivity ($\pm 10\%$) |
|------------------|--------------------|--|
| MTN/2200ISW-xx | 1/4"-28 UNF x 33mm | 10 |
| MTN/2200ISWM6-xx | M6 x 35mm | 25 |
| MTN/2200ISWM8-xx | M8 x 28mm | 30 50 |

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.