

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 underwater environments and areas with constant moisture or condensation. Sealed to IP68 and includes integral heavy duty polyurethane cable.  $\frac{1}{4}$ "-28UNF, M6 and M8 mounting bolts also available.

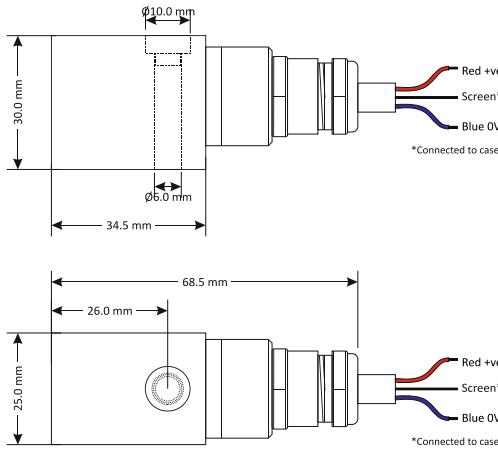
## Applications

- Submersible pumps
- Roll monitors
- Paper machinery
- Oil and petrochemical

## MTN/1100ISW



## 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	-55°C $\leq$ Ta $\leq$ +65°C
Case material	Stainless steel
Cable type <sup>1</sup>	Integral polyurethane - length to be specified at point of order
Maximum cable length	See system drawing ATX028
Mounting torque	8Nm
Weight	200g (nominal)
Sealing	IP68
Submersible depth	5m max (0.5 bar)
Insulation	Units will pass a 500V insulation test

## Certificate details

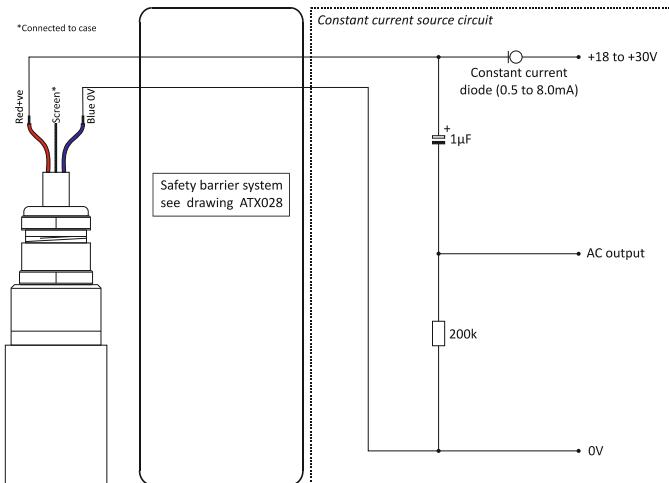
Group II <sup>2</sup>	BAS02ATEX1057X and IECEx BAS 08.0013X Ex ia IIC T6 Ga (-55°C $\leq$ Ta $\leq$ +65°C) Ex ia IIIC T85°C Da (-55°C $\leq$ Ta $\leq$ +65°C)
Terminal parameters	Ui = 28V, Ii = 93mA, Pi = 0.65W For Ci & Li see certificate
Barrier	1 x MTL7728+ (BAS01ATEX7217) or (P&F Z728 BAS01ATEX7005) or any other barrier that conforms to note 6 of ATX028 (Available on request)

## Options

- Mating connectors
- Various cable lengths
- Optional mounting
- Other sensitivities (see below)

Part #	Mounting	xx = Optional sensitivity ( $\pm 10\%$ )
MTN/1100ISW-xx	$\frac{1}{4}''$ -28 UNF x 33mm	10
MTN/1100ISWM6-xx	M6 x 35mm	25
MTN/1100ISWM8-xx	M8 x 28mm	30 50

## System connection



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

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

<sup>2</sup> 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.