

ATEX and IECEx Group I certified. General purpose top-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. Internal electronics are isolated to minimise noise with increased bias voltage stability. Sealed to IP67 and includes 2-pin C5015 military style connector. Available with a wide range of mountings.

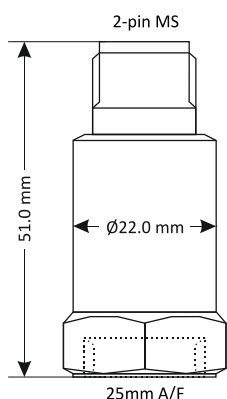
## Applications

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

## MTN/M2200I



## 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                                               |
| Temperature range      | $-55^{\circ}\text{C} \leq T_a \leq +115^{\circ}\text{C}$ |
| Bias voltage           | 12V DC (nominal)                                         |
| Case material          | Stainless steel                                          |
| Maximum cable length   | See system drawing ATX037                                |
| Mounting torque        | 8Nm                                                      |
| Weight                 | 170g (nominal)                                           |
| Sealing                | IP67                                                     |
| Insulation             | Units will pass a 500V insulation test                   |

## Certificate details

|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Group I             | BAS02ATEX0245X and IECEx BAS 08.0013X<br>Ex ia I Ma ( $-55^{\circ}\text{C} \leq T_a \leq +115^{\circ}\text{C}$ )                                |
| Terminal parameters | $U_i = 28\text{V}$ , $I_i = 93\text{mA}$ , $P_i = 0.65\text{W}$<br>For Ci and Li see certificate                                                |
| Barrier             | 1 x MTL7728+ (BAS01ATEX7217) or (P&F 7728<br>BAS01ATEX7005) or any other barrier that<br>conforms to note 5 of ATX037 (Available on<br>request) |

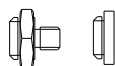


## Studs and grub screws



| Part # | From           | To             |
|--------|----------------|----------------|
| MS036  | ¼"-28 UNF Male | M6 Male        |
| MS039  | ¼"-28 UNF Male | 10-32 UNF Male |
| MS067  | ¼"-28 UNF Male | M8 Male        |
| MS068  | ¼"-28 UNF Male | ¼"-28 UNF Male |
| MS124  | ¼"-28 UNF Male | M10 Male       |
| MS132  | ¼"-28 UNF Male | M12 Male       |

## Quick fit adapters



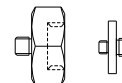
| Part # | From     | To             |
|--------|----------|----------------|
| MS001  | Q/F Male | Glue base      |
| MS002  | Q/F Male | M8 Male        |
| MS003  | Q/F Male | M10 Male       |
| MS004  | Q/F Male | ¼"-28 UNF Male |
| MS006  | Q/F Male | M6 Male        |

## Options

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

| Part #         | Mounting      | xx = Optional sensitivity (mV/g) |
|----------------|---------------|----------------------------------|
| MTN/M2200I-xx  | ¼" UNF Female | 10                               |
|                |               | 30                               |
|                |               | 50                               |
| MTN/M2200IQ-xx | Q/F Female    | 500                              |
|                |               | 1000                             |

## Mounting adapters

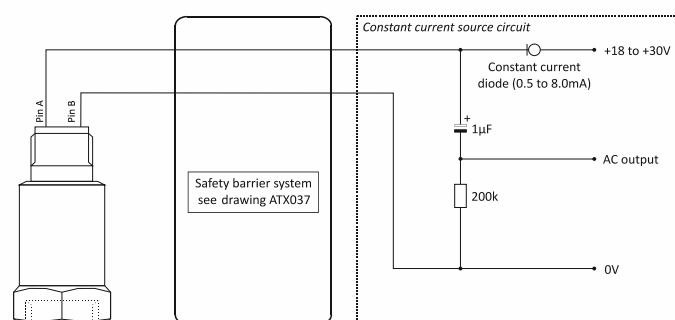


| Part # | From           | To               |
|--------|----------------|------------------|
| MS005  | Q/F Male       | ¼"-28 UNF Female |
| MS007  | Q/F Male       | 10-32 UNF Female |
| MS008  | Q/F Male       | M8 Female        |
| MS011  | ¼"-28 UNF Male | Q/F Female       |
| MS013  | ¼"-28 UNF Male | Glue base        |
| MS033  | ¼"-28 UNF Male | Q/F Female       |
| MS038  | Q/F Male       | M8 Conical Male  |
| MS061  | ¼"-28 UNF Male | 10-32 UNF Male   |
| MS079  | ¼"-28 UNF Male | Q/F Female       |
| MS106  | Q/F Male       | M10 Female       |

## Isolation

| Part # | From           | To               |
|--------|----------------|------------------|
| MS034  | ¼"-28 UNF Male | ¼"-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.*