

ATEX and IECEx Group I certified. General purpose, top-entry accelerometer with DC output proportional to acceleration. Made from robust stainless steel throughout for continuous vibration monitoring in harsh industrial environments. Internal electronics are enclosed in a Faraday cage and isolated to minimise noise. 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 steel overbraided ETFE cable and is available with a wide range of mountings.

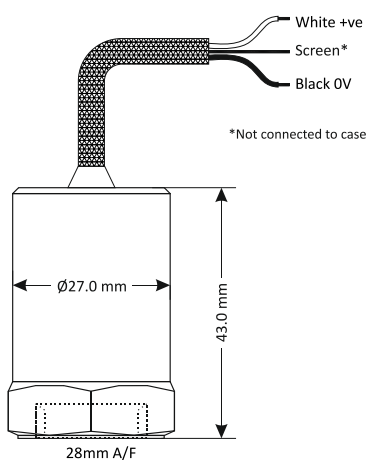
## Applications

- Intrinsically safe data collector
- Oil and mining
- Pumps, fans and compressors

## MTN/M2287IC



## Dimensions



## Technical

|                         |                                                          |
|-------------------------|----------------------------------------------------------|
| Output current          | 4-20mA DC proportional to rms acceleration (g rms)       |
| 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       | $-55^{\circ}\text{C} \leq T_a \leq +115^{\circ}\text{C}$ |
| Temperature sensitivity | 0.08%/°C                                                 |
| Case material           | Stainless steel                                          |
| Cable                   | Integral stainless steel overbraided ETFE                |
| Maximum cable length    | See system drawing ATX038                                |
| Mounting torque         | 8Nm                                                      |
| Weight                  | 150g (nominal)                                           |
| Sealing                 | IP67                                                     |

## 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 | Ui = 28V, Ii = 93mA, Pi = 0.65W<br>For Ci and Li see certificate                                                                         |
| Barrier             | MTL7787+, BAS01ATEX7217 or P&FZ787,<br>BAS01ATEX7005 or any other barrier that<br>conforms to note 4 of ATX038 (Available on<br>request) |

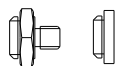


## Studs and grub screws



| 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



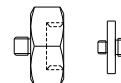
| Part # | From     | To             |
|--------|----------|----------------|
| MS001  | Q/F Male | Glue base      |
| MS002  | Q/F Male | M8 Male        |
| MS003  | Q/F Male | M10 Male       |
| MS004  | Q/F Male | ¼"-28 UNF Male |
| MS006  | Q/F Male | M6 Male        |

## Options

- Filters
- Mounting threads
- High temperatures
- Other ranges (see below)

| Part #          | Mounting      | xx = Optional acceleration (g rms) |
|-----------------|---------------|------------------------------------|
| MTN/M2287IC-xx  | ¼" UNF Female | 0-1<br>0-2<br>0-5                  |
| MTN/M2287ICQ-xx | Q/F Female    | 0-10<br>0-20                       |

## Mounting adapters

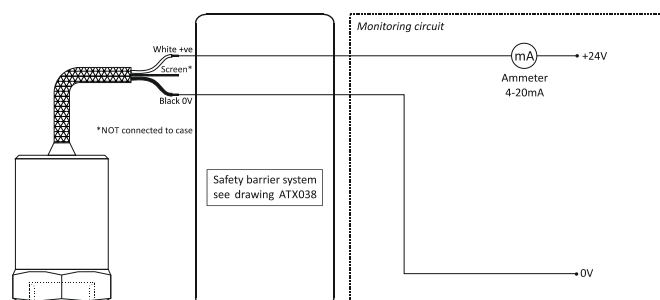


| Part # | From           | To               |
|--------|----------------|------------------|
| MS005  | Q/F Male       | ¼"-28 UNF Female |
| MS007  | Q/F Male       | 10-32 UNF Female |
| MS008  | Q/F Male       | M8 Female        |
| MS011  | ¼"-28 UNF Male | Q/F Female       |
| MS013  | ¼"-28 UNF 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.*

ATEX and IECEx Group II certified. General purpose, top-entry accelerometer with DC output proportional to acceleration. Made from robust stainless steel throughout for continuous vibration monitoring in harsh industrial environments. Internal electronics are enclosed in a Faraday cage and isolated to minimise noise. 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 steel overbraided ETFE cable and is available with a wide range of mountings.

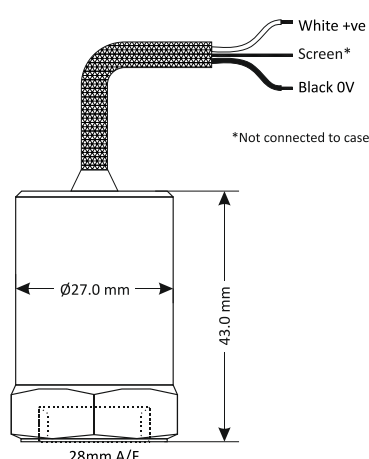
## Applications

- Intrinsically safe data collector
- Oil and mining
- Pumps, fans and compressors

## MTN/2287IC



## Dimensions



## Technical

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Output current          | 4-20mA DC proportional to rms acceleration (g rms) |
| 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          |
| Maximum cable length    | See system drawing ATX038                          |
| Mounting torque         | 8Nm                                                |
| Weight                  | 150g (nominal)                                     |
| Sealing                 | IP67                                               |

## Certificate details

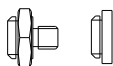
|                     |                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Group II            | BAS02ATEX1057X and IECEx BAS 08.0013X<br>Ex ia IIC T6 Ga (-55°C $\leq$ Ta $\leq$ +65°C)<br>Ex ia IIIC T85°C Da (-55°C $\leq$ Ta $\leq$ +65°C) |
| Terminal Parameters | Ui = 28V, Ii = 93mA, Pi = 0.65W<br>For Ci and Li see certificate                                                                              |
| Barrier             | MTL7787+, BAS01ATEX7217 or P&FZ787,<br>BAS01ATEX7005 or any other barrier that<br>conforms to note 4 of ATX038 (Available on<br>request)      |

## Studs and grub screws



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| 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



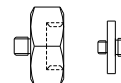
| Part # | From     | To             |
|--------|----------|----------------|
| MS001  | Q/F Male | Glue base      |
| MS002  | Q/F Male | M8 Male        |
| MS003  | Q/F Male | M10 Male       |
| MS004  | Q/F Male | ¼"-28 UNF Male |
| MS006  | Q/F Male | M6 Male        |

## Options

- Filters
- Mounting threads
- High temperatures
- Other ranges (see below)

| Part #         | Mounting      | xx = Optional acceleration (g rms) |
|----------------|---------------|------------------------------------|
| MTN/2287IC-xx  | ¼" UNF Female | 0-1<br>0-2<br>0-5                  |
| MTN/2287ICQ-xx | Q/F Female    | 0-10<br>0-20                       |

## Mounting adapters

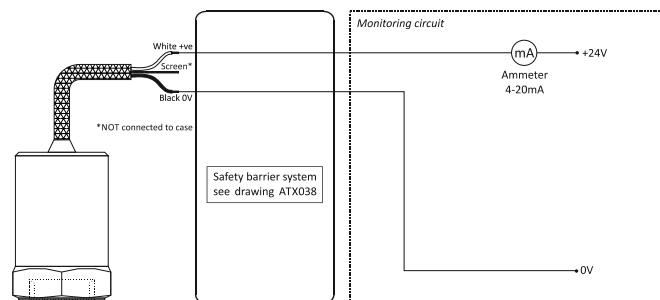


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## System connection



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