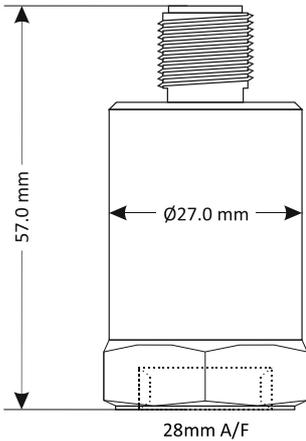


General purpose, top-entry accelerometer with DC output proportional to acceleration. Made from robust stainless steel throughout for continuous vibration monitoring in harsh environments. Internal electronics are enclosed in a Faraday cage and isolated to minimise noise. Sealed to IP67 with industry standard two wire 4-20mA output proportional to sensor range that can connect directly to PLC, DCS and other industrial controllers. Includes 4-pin M12 connector and is available with a wide range of mountings.

MTN/2287-4P



Dimensions



Applications

- Centrifuges
- Building services
- Pumps and fans

Technical

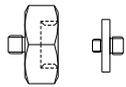
| | |
|-------------------------|--|
| Output current | 4-20mA DC proportional to rms acceleration (g rms) |
| Supply voltage | 12-32V DC (4-20mA) |
| Frequency response | 2Hz to 1kHz $\pm 10\%$ |
| Mounted base resonance | 5kHz (nominal) |
| Isolation | Electronics in Faraday cage, isolated from body |
| Dynamic range | 50g peak |
| Transverse sensitivity | Less than 5% |
| Operating temperature | -25 to 90°C |
| Temperature sensitivity | 0.08%/°C |
| Case material | Stainless steel |
| Mating connector | MTN/MH160 |
| Mounting torque | 8Nm |
| Weight | 150g (nominal) |
| Sealing | IP67 |

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



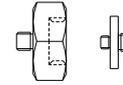
| Part # | From | To |
|--------|----------|----------------|
| MS001 | Q/F Male | Glue base |
| MS002 | Q/F Male | M8 Male |
| MS003 | Q/F Male | M10 Male |
| MS004 | Q/F Male | ¼"-28 UNF Male |
| MS006 | Q/F Male | M6 Male |

Options

- Filters
- Mounting threads
- Mating connectors and cable assemblies
- High temperatures
- Other ranges (see below)

| Part # | Mounting | xx = Optional acceleration (g rms) |
|-----------------|---------------|------------------------------------|
| MTN/2287-4P-xx | ¼" UNF Female | 0-1 |
| | | 0-2 |
| | | 0-5 |
| MTN/2287Q-4P-xx | Q/F Female | 0-10 |
| | | 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

