

General purpose, top-entry accelerometer with DC output proportional to acceleration. Made from robust stainless steel throughout for continuous vibration monitoring in harsh environments. 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.

MTN/1187C



Applications

- Centrifuges
- Building services
- Pumps and fans

Technical

Output current	4-20mA DC proportional to rms acceleration (g rms)
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Supply voltage	12-32V DC (4-20mA)
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Frequency response	2Hz to 1kHz $\pm 10\%$
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Mounted base resonance	5kHz (nominal)
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Isolation	Base isolated
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Dynamic range	50g peak
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Transverse sensitivity	Less than 5%
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Operating temperature	-25 to 90°C
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Temperature sensitivity	0.08%/°C
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Case material	Stainless steel
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Cable	Integral stainless steel overbraided ETFE
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Standard cable length	5m
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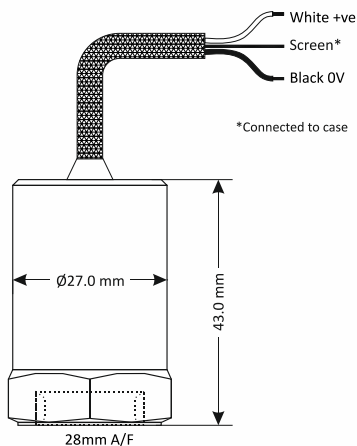
Maximum cable length	100m
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Mounting torque	8Nm
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Weight	150g (nominal)
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Sealing	IP67
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Dimensions

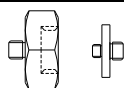


Studs and grub screws



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/1187C-xx	¼"UNF Female	0-1 0-2 0-5
MTN/1187CQ-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

