

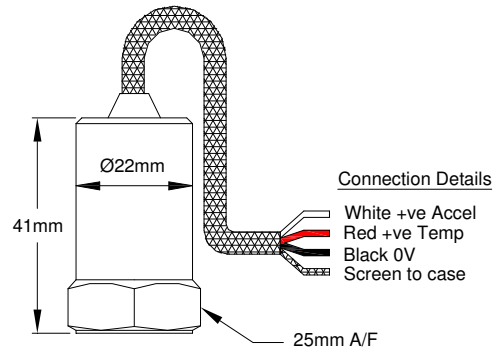


MTN/1100TC Series

General purpose industrial accelerometer with temperature sensor

Applications

- Paper machinery
- General industry
- Pumps, fans, etc.
- Air handling units
- Machine tools



Technical Specification

Standard Sensitivity	100 mV/g $\pm 10\%$ at 80Hz
Frequency Range	2Hz to 5KHz $\pm 5\%$ (3db at 0.8Hz & 10KHz)
Dynamic Range	80g pk (with 24V source voltage)
Mounted Base Resonance	18 kHz (nominal)
Transverse Sensitivity	Less than 5%
Temperature Output Sensitivity	10mV/ $^{\circ}$ C (range 2 $^{\circ}$ C to 100 $^{\circ}$ C)
Power Requirements	Constant current supply 0.5mA to 8mA
Supply Source Voltage	18 to 30Vdc
Bias Voltage	12Vdc (nominal)
Electrical Noise	0.3mg max
Isolation	Base isolated from signal wires & connected to cable screen.
Cable	Integral stainless steel overbraided PTFE
Standard Cable Length	5 metres
Maximum Cable Length	1000 metres (to order)
Operating Temperature Range	-55 $^{\circ}$ C to 140 $^{\circ}$ C
Case Material	Stainless steel
Weight	110 gms (nominal)
Mounting Torque	8 Nm
Sealing	IP67
Options	Connector, cable length, various mounts, other sensitivities (see table on page 2).

ORDER CODE PART No	MOUNTING	xx =OPTIONAL SENSITIVITY RANGE AVAILABLE (+/- 10%)
MTN/1100TC-xx MTN/1100TCQ-xx	1/4" UNF FEMALE QUICK FIT FEMALE	10 mV/g 30 mV/g 50 mV/g 500 mV/g 1 V/g
FOR OTHER MOUNTINGS SEE BELOW.		

Mounting Adapters and Studs

Studs and Grub Screws

Male Studs		
Product Code	From	To
MS036	1/4"-28 UNF	M6
MS039	1/4"-28 UNF	10-32 UNF
MS067	1/4"-28 UNF	M8
MS068	1/4"-28 UNF	1/4"-28 UNF
MS124	1/4"-28 UNF	M10
MS132	1/4"-28 UNF	M12

Other Adaptors

Mounting Adapters		
Product Code	From	To
MS005	Q/F Male	1/4"-28 UNF Female
MS007	Q/F Male	10-32 UNF Female
MS008	Q/F Male	M8 Female
MS011	1/4"-28 UNF Male	Q/F Female
MS013	1/4"-28 UNF Male	Glue Base
MS033	1/4"-28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	1/4"-28 UNF Male	10-32 UNF Male
MS079	1/4"-28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

Isolation Mounting Adaptors		
Product Code	From	To
MS034	1/4"-28UNF Male	1/4"-28 UNF Female
MS093	Q/F Male	M8 Male

Quick Fit Adapters

Quick Fit (Q/F)		
Product Code	From	To
MS001	Q/F Male	Glue Base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	1/4"-28 UNF Male
MS006	Q/F Male	M6 Male

System Connection Details

Accelerometer with 10mV/°C Temperature Sensor

