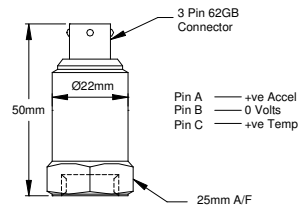**MONITRAN**
SENSORS FOR YOUR INDUSTRY

MTN/1100T Series

General purpose industrial accelerometer with temperature sensor

Applications

- Data-collector
- Heavy industry
- Paper machinery
- Pumps, fans

3 Pin 62GB Connector

Ø22mm

50mm

Pin A — +ve Accel
Pin B — 0 Volts
Pin C — +ve Temp

25mm A/F

Technical Specification

Standard Sensitivity	100 mV/g ±10% nominal at 80 Hz
Temperature	10mV/ºC
Frequency Response	2 Hz to 10 kHz ±5% (-3 dB at 0.8 Hz)
Mounted Base Resonance	18 kHz (nominal)
Isolation	Base isolated
Transverse Sensitivity	Less than 5%
Electrical Noise	0.3 mg max
Current Range	0.5 mA to 8 mA
Temperature Range	-55 to 140 ºC
Bias Voltage	12 Volts DC (nominal)
Case Material	Stainless steel
Mounting Torque	8 Nm
Weight	110 gms (nominal)
Sealing	IP67
Maximum Cable Length	1000 metres
Mounting Connector	MTN/MH008
Options	Cable length, various connector assemblies and other sensitivities (see table).

ORDER CODE PART No	MOUNTING	xx =OPTIONAL SENSITIVITY RANGE AVAILABLE (+/- 10%)
MTN/1100T-xx MTN/1100TQ-xx	¼" UNF FEMALE QUICK FIT FEMALE	10 mV/g
		30 mV/g
		50 mV/g
FOR OTHER MOUNTINGS SEE OVER PAGE.		500 mV/g
		1 V/g

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

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

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"-28 UNF Male	1/4"-28 UNF Female
MS093	Q/F Male	M8 Male

System Connection Details

Accelerometer with 10mV/°C Temperature Sensor

Monitoring System

Constant Current Source Circuit

0.5 - 8.0 mA Current Diode

1µF

+18 to 30 Volts

Pin A — +ve Accel
Pin C — +ve Temp
Pin B — 0 Volts

200K

Volts Out A.C.

0 Volts