

**B.21.6      Vibration detector: Monitran**

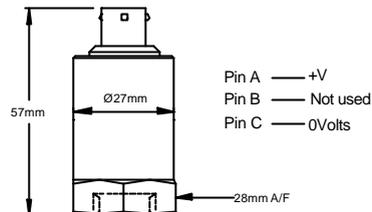


## MTN/1185 Series

### 4-20 mA Velocity Transducer for PLC interface

#### Applications

- Air handling units
- Building services
- Fans



### Technical Specification

Output Current	4-20mA DC proportional to RMS velocity (mm/s)
Velocity Range	See table below
Frequency Response	2 Hz to 1 kHz $\pm 10\%$
Dynamic Range	50 g peak
Mounted Resonance	5 kHz min
Isolation	Base isolated
Operating Temp Range	-25 to 90 °C
Temperature Sensitivity	0.08 %/°C
Transverse Sensitivity	Less than 5%
Supply Voltage Range	12-32 Volts DC (4-20mA)
Case Material	Stainless steel
Weight	140 gms (nominal)
Sealing	IP67
Mounting Torque	8 Nm
Mating Connector	MTN/MH008
Options	Ranges, filters, mounting threads, mating cable assemblies, high temperatures.

ORDER CODE PART No	MOUNTING	xx =VELOCITY RANGE AVAILABLE (+/- 10%)
MTN/1185-xx MTN/1185Q-xx	¼ UNF FEMALE QUICK FIT FEMALE	0-10 mm/sec RMS 0-20 mm/sec RMS 0-25 mm/sec RMS 0-50 mm/sec RMS 0-100 mm/sec RMS
FOR OTHER MOUNTINGS SEE OVER PAGE.		

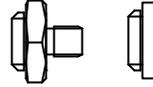
# Mounting Adapters and Studs

## Studs and Grub Screws



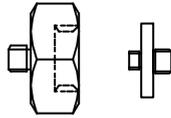
Male Studs		
Product Code	From	To
MS036	1/4" - 28 UNF	M6
MS039	1/4" - 28 UNF	10 - 32 UNF
MS067	1/4" - 28 UNF	M8
MS068	1/4" - 28 UNF	1/4" - 28 UNF
MS124	1/4" - 28 UNF	M10
MS132	1/4" - 28 UNF	M12

## 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

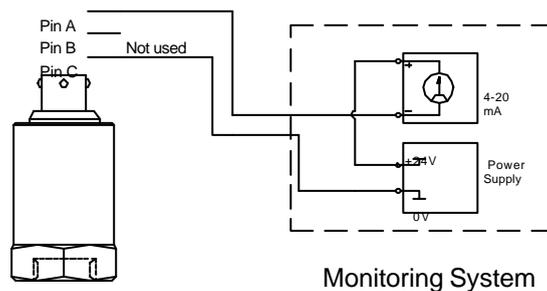
## Other Adapters



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

## System Connection



241003138



**Monitran**  
Sensors for Industry

45071610

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460869  
Sensitivity : 10.30 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870

Date: 23/10/2013

Tested By: L.Kownacki

Signature: \_\_\_\_\_

*L. Kownacki*

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.



**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460868  
Sensitivity : 10.10 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870

Date: 23/10/2013

Tested By: L.Kownacki

Signature: L. Kownacki

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**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460867  
Sensitivity : 10.30 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870      Date: 23/10/2013

Tested By: L.Kownacki

Signature: *L. Kownacki*

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.



**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460865  
Sensitivity : 10.10 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870      Date: 23/10/2013

Tested By: L.Kownacki

Signature: *L. Kownacki*

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Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460864  
Sensitivity : 10.30 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870      Date: 23/10/2013

Tested By: L.Kownacki

Signature: *L. Kownacki*

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.



**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460863  
Sensitivity : 10.20 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870      Date: 23/10/2013

Tested By: L.Kownacki

Signature: *L. Kownacki*

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.



**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460862  
Sensitivity : 9.50 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870      Date: 23/10/2013

Tested By: L.Kownacki      Signature: *L. Kownacki*

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.



**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460861  
Sensitivity : 9.80 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870

Date: 23/10/2013

Tested By: L.Kownacki

Signature: *L. Kownacki*

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**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460860  
Sensitivity : 10.10 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870      Date: 23/10/2013

Tested By: L.Kownacki

Signature: L. Kownacki

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.



**Monitran**  
Sensors for Industry

**Accelerometer Calibration Certificate**

Product : MTN/1185M8-10  
Serial No : 460859  
Sensitivity : 10.30 mm/s @ 20mA @ 80Hz  
Output : 4-20mA  
Mounting : M8 Male  
Connector : 3 Pin 62 GB Connector

**Connection Details**

Pin A : +ve Supply  
Pin B : No Connection  
Pin C : 0 Volts

Works Order No: 50870

Date: 23/10/2013

Tested By: L.Kownacki

Signature: L. Kownacki

Certified that the instrument has been calibrated using equipment certified and traceable to UK national standards carried out in accordance with the general requirements of BS EN ISO 10012-1. The instrument complies with the manufacturer's specifications.