



MTN/1185IW & M1185IW Series



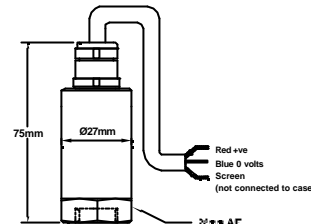
Intrinsically safe 4-20mA Velocity Transducer

ATEX Group I & II Approved

Not to be mounted in a high velocity dust laden atmosphere

Applications

- Intrinsically safe data-collector
- Oil & mining
- Submersible Pumps, fans, compressors, etc.



Technical Specification

Output Current	4-20mA DC proportional to RMS velocity (mm/s)
Velocity Range	See table on Page 2
Frequency Response	2 Hz to 1 kHz $\pm 10\%$
Dynamic Range	See table on Page 2
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	12-32 Volts DC (4-20 mA)
Standard Cable	5 metres Integral Polyurethane Cable
Maximum Cable Length	See system drawing ATX031
Case Material	Stainless steel
Weight	150 gms (nominal)
Submersible Depth	100 metres maximum (10 bar)
Sealing	IP68
Mounting Torque	8 Nm
Certificate Details:	Group I EEx ia I Baseefa02ATEX0245
	Group II EEx ia IIC T6 BAS02ATEX1057
System Connection	Drawing ATX031
Barrier	MTL 787S, BAS01ATEX7202 or P&F Z787, BAS01ATEX7005 or any other barrier that conforms to Note 4 of ATX009.

Mounting and Sensitivity

ORDER CODE PART No	MOUNTING	xx =VELOCITY RANGE AVAILABLE (+/- 10%)
MTN/1185IW-xx MTN/1185IWQ-xx	¼" UNF FEMALE QUICK FIT FEMALE	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.		

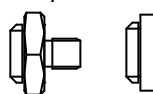
<h2>Options</h2>	Ranges, filters, mounting threads, other cable lengths
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Mounting Adapters and Studs

Studs and Grub Screws



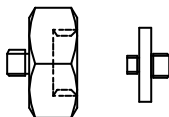
Quick Fit Adapters



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 (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

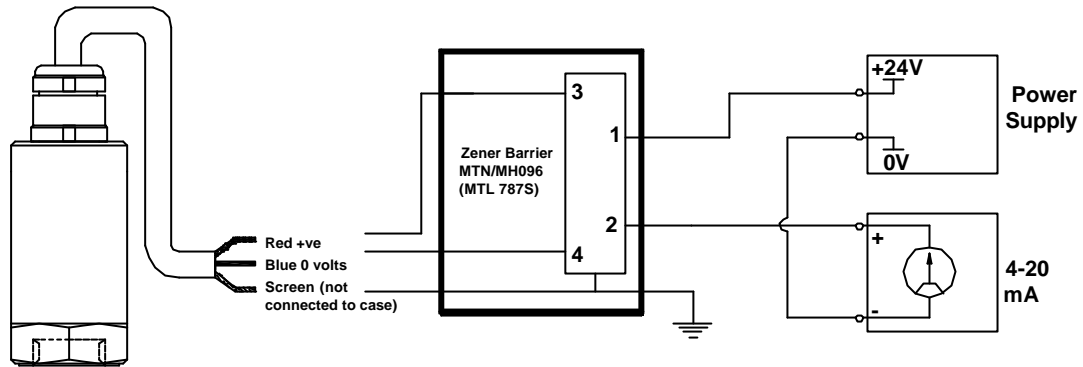
Other Adapters



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

Barrier System Connection



Barrier Enclosures		
Product Code	Type	Capacity
MTN/MH073	MT2	2 Barrier Capacity
MTN/MH062	MT5	2 Barrier Capacity
MTN/MH045	MT12	12 Barrier Capacity
MTN/MH024	MT24	24 Barrier Capacity
MTN/MH032	MT32	32 Barrier Capacity