

Intrinsically safe 4-20mA output accelerometer for PLC interface ATEX & IECEx Group II approved

ATEX and IECEx Group II certified. General purpose, top-entry accelerometer with DC output proportional to acceleration. Made from robust stainless steel throughout for continuous vibration monitoring in harsh industrial 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 www.shhangou.com steel overbraided ETFE cable and is available with a wide range of mountings.

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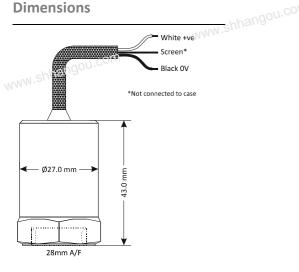
# **Applications**

- Intrinsically safe data collector
- Pumps, fans and compressors www.shhangou.co

# w.shhangou.com MTN/1187IC



# **Dimensions**









#### **Technical**

Output current  4-20mA DC proportional to rms acceleration (g rms)  Supply voltage  12-32V DC (4-20mA)  Frequency response  2Hz to 1kHz ±10 %  Mounted base resonance  5kHz (nominal)  Isolation  Base isolated  Dynamic range  50g peak  Transverse sensitivity  Less than 5%  Operating temperature  -25 to 90°C  Temperature sensitivity  Onesw/°C  Case material  Stainless steel  Cable  Integral stainless steel overbraided ETFE  Maximum cable length  See system drawing ATX009  Mounting torque  8Nm  Weight  150g (nominal)
Frequency response 2Hz to 1kHz ±10 %  Mounted base resonance 5kHz (nominal)  Isolation Base isolated  Dynamic range 50g peak  Transverse sensitivity Less than 5%  Operating temperature -25 to 90°C  Temperature sensitivity 0.08%/°C  Case material Stainless steel  Cable Integral stainless steel overbraided ETFE  Maximum cable length See system drawing ATX009  Mounting torque 8Nm
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-
Weight 150g (nominal)
Sealing IP67
Certificate details
Group II <sup>1</sup> Ex ia IIC T6 BAS02ATEX1057X & IECEx BAS 08.0013X
MTL787S, BAS01ATEX7202 or P&FZ787, Barrier BAS01ATEX7005 or any other barrier that conforms to note 4 of ATX009

# MTN/1187IC Series

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# Studs and grub screws



Part #	From	То	
MS036	¼"-28 UNF Male	M6 Male	
MS039	1/4"-28 UNF Male	10-32 UNF Male	
MS067	1/4"-28 UNF Male	M8 Male	
MS068	1/4"-28 UNF Male	¼"-28 UNF Male	
MS124	1/4"-28 UNF Male	M10 Male	
MS132	1/4"-28 UNF Male	M12 Male	
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# Quick fit adapters



Part #	From	То
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**

- Other ranges (see below) Other ranges (see below) www.shhangou.com

Part #	Mounting	xx = Optional acceleration (g rms)
MTN/1187IC-xx	¼"UNF Female	0-1 0-2 0-5
MTN/118ICQ-xx	Q/F Female	0-10 0-20

# **Mounting adapters**

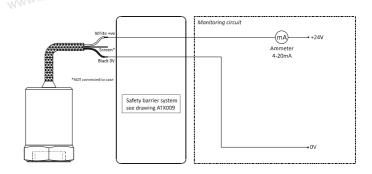


Part #	From	Fom
MS005	Q/F Male www	¼"-28 UNF Female
MS007	om Q/F Male	10-32 UNF Female
MISO08	Q/F Male	M8 Female
MS011	¼"-28 UNF Male	Q/F Female
MS013	¼"-28 UNF Male	Glue base
MS033	¼"-28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	¼"-28 UNF Male	10-32 UNF Male
MS079	¼"-28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

# **Isolation**

Part #	From	То	
MS034	14"-28 UNF Male	¼"-28 UNF Female	
MS093	Q/F Male M8 Male		
	www.shhangou.com		

# System connection



Note: Care should be taken not to install this in a high velocity dust laden

<sup>1</sup> Warning ref Group II: The Ci and Li were previously lower. The installer must take account of the increase in internal capacitance and inductance present on this apparatus.

