

ATEX and IECEx Group I certified. General purpose top-entry constant current accelerometer with isolated AC output. Made from robust stainless steel throughout for long term vibration analysis in harsh, hazardous gas and dust environments. Internal electronics are isolated to minimise noise with increased bias voltage stability. Sealed to IP67 and includes integral stainless steel overbraided ETFE cable. Available with a wide range of mountings.

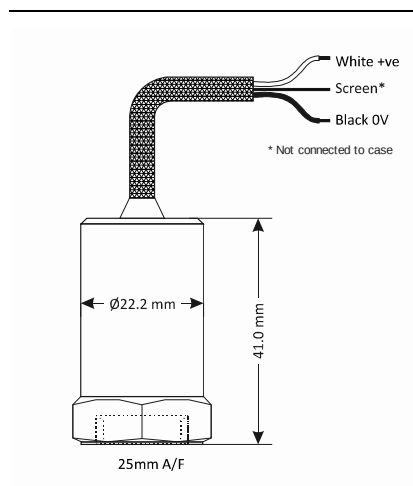
Applications

- General industry
- Compressors, pumps etc
- Oil and petrochemical
- Mining

MTN/M2200IC



Dimensions



Technical

Standard sensitivity	100mV/g $\pm 10\%$ nominal @ 80Hz
----------------------	-----------------------------------

Frequency response	2Hz to 10kHz $\pm 5\%$ (-3dB @ 0.8Hz)
--------------------	---------------------------------------

Mounted base resonance	18kHz (nominal)
------------------------	-----------------

Isolation	Base isolated
-----------	---------------

Dynamic range	$\pm 80g$
---------------	-----------

Transverse sensitivity	Less than 5%
------------------------	--------------

Electrical noise	0.1mg max
------------------	-----------

Current range	0.5 to 8mA
---------------	------------

Temperature range	$-55^{\circ}\text{C} \leq T_a \leq +115^{\circ}\text{C}$
-------------------	--

Bias voltage	12V DC (nominal)
--------------	------------------

Case material	Stainless steel
---------------	-----------------

Cable	Integral stainless steel overbraided ETFE
-------	---

Standard cable length	5m
-----------------------	----

Maximum cable length	See system drawing ATX037
----------------------	---------------------------

Mounting torque	8Nm
-----------------	-----

Weight	110g (nominal)
--------	----------------

Sealing	IP67
---------	------

Insulation	Units will pass a 500V insulation test
------------	--

Certificate details

Group I	BAS02ATEX0245X and IECEx BAS 08.0013X Ex ia I Ma ($-55^{\circ}\text{C} \leq T_a \leq +115^{\circ}\text{C}$)
---------	--

Terminal parameters	$U_i = 28V$, $I_i = 93mA$, $P_i = 0.65W$ For C_i & L_i see certificate
---------------------	---

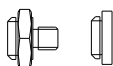
Barrier	1 x MTL7728+ (BAS01ATEX7217) or (P&F Z728BAS01ATEX7005) or any other barrier that conforms to note 5 of ATX037 (Available on request)
---------	--

Studs and grub screws



Part #	From	To
MS036	¼"-28 UNF Male	M6 Male
MS039	¼"-28 UNF Male	10-32 UNF Male
MS067	¼"-28 UNF Male	M8 Male
MS068	¼"-28 UNF Male	¼"-28 UNF Male
MS124	¼"-28 UNF Male	M10 Male
MS132	¼"-28 UNF Male	M12 Male

Quick fit adapters



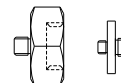
Part #	From	To
MS001	Q/F Male	Glue base
MS002	Q/F Male	M8 Male
MS003	Q/F Male	M10 Male
MS004	Q/F Male	¼"-28 UNF Male
MS006	Q/F Male	M6 Male

Options

- Cable length
- Various mounts
- Connector
- Dust option (Group II only)
- Other sensitivities (see below)

Part #	Mounting	xx = Optional sensitivity (mV/g)
MTN/M2200IC-xx	¼" UNF Female	10
		20
		25
		30
MTN/M2200ICQ-xx	Q/F Female	50
		500

Mounting adapters

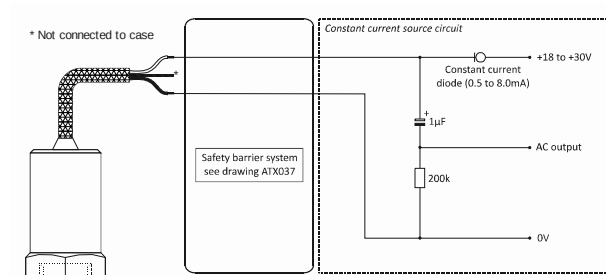


Part #	From	To
MS005	Q/F Male	¼"-28 UNF Female
MS007	Q/F Male	10-32 UNF Female
MS008	Q/F Male	M8 Female
MS011	¼"-28 UNF Male	Q/F Female
MS013	¼"-28 UNF Male	Glue base
MS033	¼"-28 UNF Male	Q/F Female
MS038	Q/F Male	M8 Conical Male
MS061	¼"-28 UNF Male	10-32 UNF Male
MS079	¼"-28 UNF Male	Q/F Female
MS106	Q/F Male	M10 Female

Isolation

Part #	From	To
MS034	¼"-28 UNF Male	¼"-28 UNF Female
MS093	Q/F Male	M8 Male

System connection



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