



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa08ATEX0336**

4 Equipment or Protective System: **TX5633 Series Accelerometer**

5 This certificate is held by: **Trolex Limited**

6 Address: **Hazel Grove, Stockport, Cheshire, SK7 5DY**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. GB/BAS/ExTR08.0238/00

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-11: 2007      EN 60079-0:2006      EN50303: 2000**

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

**⊕ I M1 Ex ia I (-55°C ≤ Ta ≤ +110°C)**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **1159**

Project File No. **08/0758**

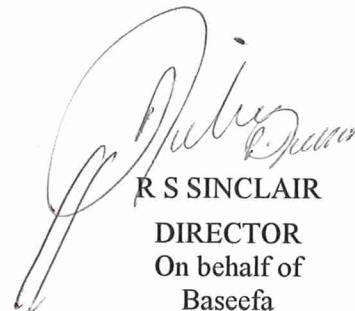
This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)

Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.



**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa08ATEX0336

### 15 Description of Equipment or Protective System

The TX5633 Series Accelerometer is designed to measure acceleration, shock or vibration by converting the signal generated by the compression of a piezo electric crystal by a given seismic mass and outputting a broadband ac signal to the monitoring equipment.

The accelerometer comprises a piezo electric crystal connected to a signal conditioning board, all contained within a stainless steel enclosure of various shapes measuring approximately 25cm<sup>3</sup>. The enclosure is a fully welded construction.

Electrical connections are made to the apparatus either via an IP65 rated connector or via an integral cable which is encapsulated in the end of the apparatus.

The electrical connections have the following terminal parameters:

$$U_i = 16.5V$$

$$C_i = 41nF$$

$$L_i/R_i = 15.4 \mu H / \Omega$$

### 16 Report Number

GB/BAS/ExTR08.0238/00

### 17 Special Conditions for Safe Use

None

### 18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
P5563.01.02	1 of 1	A	20.11.08	TX5633 Vibration Sensor GrpI Certification Marking



**1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

**2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

**3** Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0336/1**

**4** Equipment or Protective System: **TX5633 Series Accelerometer**

**5** This certificate is held by: **Trolex Limited**

**6** Address: **Hazel Grove, Stockport, Cheshire, SK7 5DY**

**7** This supplementary certificate extends EC – Type Examination Certificate No. Baseefa08ATEX0336 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

**8** Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 EN 60079-11: 2012

except in respect of those requirements listed at item 18 of the Schedule.”

**9** The marking of the equipment has changed from the original Certificate and shall include the following:

**⊕ IM1 Ex ia I Ma (-55°C ≤Ta ≤+110°C)**

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **1159**

Project File No. 12/0786

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

A handwritten signature in black ink, appearing to read "R S Sinclair".

PP DREARLEY

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa08ATEX0336/1

### 15 Description of the variation to the Equipment or Protective System

#### Variation 1.1

To confirm that the equipment covered by this certificate also meets the requirements of EN 60079-0: 2012 (IEC 60079-0: 2011, Edition 6) and EN 60079-11: 2012 (IEC 60079-11: 2011, Edition 6) as supported by GB/BAS/ExTR12.0255/00 held on technical file IECEX BAS 07.0035X.

### 16 Report Number

GB/BAS/ExTR12.0255/00

### 17 Specific Conditions of Use

None additional to those listed previously

### 18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
P5563.01.02	1 of 1	B	21/09/12	TX5633 Vibration Sensor Grp I Certification Marking

These drawings are associated and held with IECEX BAS 08.0117/1.