



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 08.0035X issue No.:4

Status: Current

Date of Issue: 2012-10-12 Page 1 of 4

Certificate history:  
Issue No. 4 (2012-10-12)  
Issue No. 3 (2011-1-24)  
Issue No. 2 (2009-2-5)  
Issue No. 1 (2008-7-1)  
Issue No. 0 (2008-4-12)

Applicant: **Trolex Limited**  
10a Newby Road  
Hazel Grove  
Stockport  
Cheshire  
SK7 5DY  
United Kingdom

Electrical Apparatus: **TX5630 Series Accelerometer**  
Optional accessory: Fuse Box

Type of Protection: **Intrinsic Safety, gas and dust**

Marking: **Ex ia I Ma (-40°C ≤Ta ≤+60°C)**  
**Ex ia IIC T6 Ga (-40°C ≤Ta ≤+60°C)**  
**Ex ia IIIC IP65 T80°C Da (-40°C ≤Ta ≤+60°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

*PP DOBREARLEY*

Position:

General Manager

Signature:  
(for printed version)

*[Signature]*  
\_\_\_\_\_  
16/10/17

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**Baseefa**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton**  
**Derbyshire**  
**SK17 9RZ**  
**United Kingdom**





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Manufacturer: **Trolex Limited**  
10a Newby Road  
Hazel Grove  
Stockport  
Cheshire  
SK7 5DY  
**United Kingdom**

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-11 : 2011-06** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

##### Test Report:

GB/BAS/ExTR08.0059/00  
GB/BAS/ExTR09.0013/00

GB/BAS/ExTR08.0060/00  
GB/BAS/ExTR11.0014/00

GB/BAS/ExTR08.0113/00  
GB/BAS/ExTR12.0255/00

##### Quality Assessment Report:

GB/SIR/QAR07.0017/02



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The TX5630 Series Accelerometers are designed to measure velocity or acceleration by converting the signal generated by the compression of a piezo electric crystal by a given seismic mass and output a 4 to 20mA signal proportional to velocity or acceleration 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 33cm<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.

For terminal parameters see Annex.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The free end of the cable on the integral cable version of the apparatus must be terminated in an appropriately certified dust proof enclosure.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 4.1

The equipment has been assed and found to be compliant with the latest published standards, IEC 60079-0: 2011 Edition 6 and IEC 60079-11: 2011 Edition 6.

ExTR: **GB/BAS/ExTR12.0255/00**

File Reference: **12/0642**