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

Certificate No.: IECEx BAS 08.0117

Issue No: 4

Certificate history:
Issue No. 4 (2017-10-12)
Issue No. 3 (2016-03-22)
Issue No. 2 (2015-01-09)
Issue No. 1 (2012-10-12)
Issue No. 0 (2008-11-24)

Status: **Current**

Date of Issue: **2017-10-12**

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

Equipment: **TX5633 Series Accelerometer**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:
Ex ia I Ma (-55°C ≤ Ta ≤ +110°C)

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version)

pp Allan Ocpen.

Date: 12 OCTOBER 2017

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:

SGS Baseefa Limited
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

Additional 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 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/ExTR08.0237/00 GB/BAS/ExTR08.0238/00 GB/BAS/ExTR12.0255/00
GB/BAS/ExTR16.0098/00 GB/BAS/ExTR17.0268/00

Quality Assessment Report:

GB/SIR/QAR07.0017/07

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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^3. 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 apparatus has the following terminal parameters:

Connector only			10m of Cable					92m of Cable	
Ui =	16.5V		Ui =	16.5V				Ui =	16.5V
Ci =	1.0nF		Ci =	5nF				Ci =	41nF
Li =	negligible		Li =	7µH	or Li/Ri =	15.4µ H/Ω		Li/Ri =	15.4µ H/Ω

SPECIFIC CONDITIONS OF USE: NO

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

Variation 4.1

To permit minor changes to the main PCB artwork and assembly thereof

ExTR: **GB/BAS/ExTR17.0268/00**	File Reference: **17/0645**