



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 12.0034U issue No.:2

Status: Current

Certificate history:
Issue No. 2 (2015-5-13)
Issue No. 1 (2015-3-4)
Issue No. 0 (2012-4-24)

Date of Issue: 2015-05-13 Page 1 of 5

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

Electrical Apparatus: Type TX 3700.** / Type TX 3710.** Plugs, Sockets and Blanking Covers
Optional accessory:

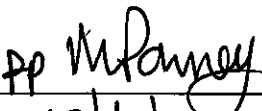
Type of Protection: Flameproof or Flameproof and Increased Safety

Marking: Ex db I Mb and/or Ex db IIB Gb
or
Ex db e I Mb and/or Ex db e IIB Gb

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

Position: Technical Manager

Signature:
(for printed version)



19/6/15

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:

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/ExTR12.0042/00

GB/BAS/ExTR15.0013/00

GB/BAS/ExTR15.0100/00

Quality Assessment Report:

GB/SIR/QAR07.0017/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type TX 3700.SS / Type TX 3710.SS Cable Mounted Plug and the Type TX 3700.PS / Type TX 3710.SS Cable Mounted Socket are rated at up to 240V a.c. or 300V d.c., 25A per pin with a maximum through current of 100A. The brass or stainless steel socket body is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An external earth connection is provided.

A cable entry hole is provided on both the plug and the socket as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component). Additionally, the cable entry device and cabling methods used in service must be suitable for their intended duty and the special types of cable when used in the respective Group I or Group II applications.

Blanking covers are provided for both the plug and socket.

Variation 0.1

Alternative fixing arrangement may be provided between the plug and the associated socket involving a bush together with a longer screw.

Variation 0.2

Omission of the socket cover shell with a reduction in the current rating to 20A per pin, with a total maximum through current of 100A. The unit formed by this variation is intended for mounting in the wall of a flameproof enclosure and is designated as the **Type TX 3700.S / Type TX 3710.S Box Mounted Socket**.

Variation 0.3

Amendment to the rear of the socket to allow filling with an encapsulation medium. The connection pins are also sealed in place using a Loctite compound. The unit formed by this variation is intended for mounting in the wall of an increased safety enclosure and is designated as the **Type TX 3700.ES / Type TX 3710.ES Enclosure Mounted Socket** and is marked Ex d e I Mb and/or Ex d e IIB Gb.

See Page 4 for Schedule of Limitations.

CONDITIONS OF CERTIFICATION: NO





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EQUIPMENT(continued):

Schedule of Limitations

1. A TX 3700.** / TX 3710.** Socket is intended to be used in conjunction with a TX 3700.** / TX 3710.** Plug to form a TX3700 / TX3710 Connector as IECEx BAS 12.0035X.
2. The TX 3700.S / TX 3710.S Socket is intended to be mounted in the wall of an appropriate flameproof enclosure with an interface as shown on the drawings listed in GB/BAS/Ex TR12.0042/00.
3. The TX 3700.ES / TX 3710.ES Socket is intended to be mounted in the wall of an appropriate flameproof or increased safety enclosure with an interface as shown on the drawings listed in GB/BAS/Ex TR12.0042/00.
4. When a socket is not fitted with a plug or a blanking cover all the electrical circuits, including those in any associated flameproof or increased safety enclosure must be de-energized.
5. The maximum flamepath gaps shall not exceed 0.15mm and 0.2 mm, as on the drawings listed in GB/BAS/Ex TR12.0042/00.
6. The ambient temperature range is -20°C to +55°C.
7. When the TX 3700.ES / TX 3710.ES socket connector is used, it shall be mounted to an enclosure in accordance with the certification drawings.
8. When the TX 3700.ES / TX 3710.ES socket connector is used, the Ingress Protection of the enclosure shall be maintained.
9. For Ex enclosure mountable socket versions of the connectors, the maximum reference pressure shall be no greater than 20 bar, without further tests and/or assessment.



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

Variation 2.1

To allow for the introduction of an aluminium version of the Type TX 3700.** Plugs, Sockets and Blanking Covers designated the **Type TX 3710.**** This aluminium version is for use in Group IIB applications only, i.e. it may not be used in Group I applications.

Variation 2.2

Addition of Schedule of Limitation No. 9.

ExTR: GB/BAS/ExTR15.0100/00

File Reference: 15/0131