

1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa06ATEX0305U – Issue 5**

4 Component: **Type TX 3700.\*\* / Type TX 3710.\*\* Plugs, Sockets and Blanking Covers**

5 Manufacturer: **Trolex Limited**

6 Address: **10a Newby Road, Hazel Grove, Stockport, Cheshire, SK7 5DY**

7 This component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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's. See **Certificate History**

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

**EN 60079-0: 2012 + A11: 2013 EN 60079-1: 2014 EN 60079-7: 2007**

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

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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

12 The marking of the component shall include the following :

⊕ I M2 Ex db I Mb and/or ⊕ II 2G Ex db IIB Gb

or

⊕ I M2 Ex db e I Mb and/or ⊕ II 2G Ex db e IIB Gb

Baseefa Customer Reference No. 1159

Project File No. 15/0131

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.baseefa.com/terms-and-conditions.asp>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

**SGS Baseefa Limited**

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)

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

*PP McNamee*  
*MPOWNEY*  
R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

## Schedule

14

Certificate Number Baseefa06ATEX0305U – Issue 5

### 15 Description of Component

**Type TX3700.SS / Type TX3710.SS Cable Mounted Socket**, 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 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) under an EC Type Examination Certificate to Directive 94/9/EC.

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.

#### Variation 0.1

Fitting of a socket blanking cover for attachment to a disconnected socket. The cover is retained with two socket head cap screws.

#### Variation 0.2

Omission of the cover shell with a reduction in the current rating to 20A per pin, with a maximum through current of 100A. The unit formed by this variation is designated as the

#### Type TX3700.S / Type TX3710.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 designated as the

#### Type TX3700.ES / Type TX3710.ES Enclosure Mounted Socket

and is marked  $\text{Ex}$  I M2 Ex db e I Mb and/or  $\text{Ex}$  II 2G Ex db e IIB

**Type TX3700.PS / Type TX3710.PS Cable Mounted Plug**, 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 plug 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 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) under an EC Type Examination Certificate to Directive 94/9/EC.

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.

#### Variation 0.4

Fitting of a plug blanking cover for attachment to a disconnected plug. The cover is retained with two socket head cap screws.

#### Variation 0.5

Alternative fixing arrangement between the plug and the associated socket; involving a bush and a longer screw.

#### 16 Report Number

None.

#### 17 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 Baseefa06ATEX0307X.
2. The socket formed by variation 0.2 is to be mounted in the wall of an appropriate flameproof enclosure with an interface as shown on the drawings listed below.
3. The sockets are to be used in conjunction with a plug as Certificate Baseefa06ATEX0305U or a blanking plug as covered by Certificate baseefa06ATEX0305U.
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 0.15 mm and 0.2 mm, as on the drawings below.
6. The ambient temperature range is -20°C to +55°C.
7. When the TX3700.ES / TX3710.ES socket connector is used, it shall be mounted to an enclosure in accordance with the certification drawings.
8. When the TX3700.ES / TX3710.ES socket connector is used, the Ingress Protection of the enclosure shall be maintained.
9. For Ex enclosures mountable socket versions of the connectors, the maximum reference pressure shall be no greater than 20 bar, without further tests and/or assessment.

#### 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

New drawings submitted for this issue of the certificate.

Number	Sheet	Issue	Date	Description
P3700.615*	1 of 3	F	21.04.15	General Arrangement
P3700.616*	1 of 8	C	21.04.15	Plug Flange
P3700.616*	2 of 8	C	21.04.15	Socket
P3700.616*	3 of 8	C	21.04.15	Cover Shell (body machined)
P3700.616*	4 of 8	C	21.04.15	Locking Ring - Plug
P3700.616*	5 of 8	C	21.04.15	Locking Ring – Socket
P3700.616*	6 of 8	C	21.04.15	Locking Ring – Socket Ex de
P3700.616*	7 of 8	C	21.04.15	Plug Blank

Number	Sheet	Issue	Date	Description
P3700.616*	8 of 8	C	21.04.15	Socket Blank
P3700.739*	1 of 1	A	21.04.15	Label Details Group II (ATEX and IECEx Aluminium version)

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
P3700.615*	2 of 3	E	29.01.15	General Arrangement
P3700.615*	3 of 3	E	29.01.15	General Arrangement
P3700.617**	1 of 1	A	20.05.02	Large Pins & Tubes, Small Pins & Tubes
P3700.618*	1 of 6	B	08/09/02	Insert Body 4-Way
P3700.618*	2 of 6	B	08/09/02	Insert End 4-Way
P3700.618*	3 of 6	B	08/09/02	Insert Body 10-Way
P3700.618*	4 of 6	B	08/09/02	Insert End 10-Way
P3700.618*	5 of 6	B	08/09/02	Insert Body 14-Way
P3700.618*	6 of 6	B	08/09/02	Insert End 14-Way
P3700.730 <sup>3</sup>	1 of 1	D	07/01/15	Label Details Group I & II (ATEX)

\*These drawings are common to Baseefa06ATEX0305U, Baseefa06ATEX0307X, IECEx BAS 12.0034U and IECEx BAS 12.0035X and are held with IECEx BAS 12.0034U.

\*\*This drawing is common to Baseefa06ATEX0306U, Baseefa06ATEX0308X, Baseefa06ATEX0305U, Baseefa06ATEX0307X, IECEx BAS 12.0036U and IECEx BAS 12.0037X, IECEx BAS 12.0034U and IECEx BAS 12.0035X and is held with IECEx BAS 12.0034U.

<sup>3</sup>This drawing is common to Baseefa06ATEX0305U and Baseefa06ATEX0307X and is held with the former.

## 20 Certificate History

Certificate No.	Date	Comments
Baseefa06ATEX0305U	24 <sup>th</sup> November 2006	The release of the prime certificate. The associated test and assessment is documented in the certification report 06(CI)0553.
Baseefa06ATEX0305U/1	25 <sup>th</sup> August 2009	To include additional wording on the warning labels. Introduction of the Type TX3704 connector (removed at issue 2 below). Introduction of a socket blanking cover for attachment to a disconnected socket. The cover is retained with two socket head cap screws. To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN60079-0: 2006 and EN60079-1: 2007 in respect of the differences from the Standards to which this certificate was issued; none of these differences affect this equipment. Certification report 09(C)0235 refers.

Certificate No.	Date	Comments
Baseefa06ATEX0305U/2	24 <sup>th</sup> April 2012	<p>To clarify that the unit covered by Variation 0.3 of Baseefa06ATE0305U is designated as the <b>Type TX37*0.ES Enclosure Mounted Socket</b>.</p> <p>Minor drawing amendments to include amended codings, reflecting the amended certification standards as below.</p> <p>To confirm that the equipment covered by this certificate as amended by the above changes has been reviewed against the requirements of EN 60079-0: 2009, EN 60079-1: 2007 and EN 60079-7: 2007 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment.</p> <p>To clarify the Type TX3704 (Baseefa06ATEX0305U/1) which is considered as removed from this certificate.</p> <p>No report.</p>
Baseefa06ATEX0305U/3	4 <sup>th</sup> March 2015	<p>To confirm that the component covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-1: 2014 in respect of the differences from the standards to which the certificate was issued.</p> <p>Introduction of two Schedule of Limitations applicable to the TX37*0.ES socket connector.</p> <p>Certification report GB/BAS/ExTR15.0013/00 refers.</p>
Baseefa06ATEX0305U/4	13 <sup>th</sup> May 2015	<p>Introduction of the aluminium version of the Type TX 3700.** Plugs, Sockets and Blanking Covers designated the <b>Type TX 3710.**</b>. This aluminium version is for use in Group IIB applications only, i.e. it may not be used in Group I applications.</p> <p>Introduction of the Schedule of Limitation applicable to Ex enclosure mountable socket versions.</p> <p>Certification report GB/BAS/ExTR15.0100/00 refers.</p>
Baseefa06ATEX0305U/5	19 June 2015	<p>Re-issue of the certificate to include certificate history and clarify certification. Deletion of the schedule of limitations referencing the Type TX3704 connector. Clarification of the Schedule of Limitations. No report.</p>
For drawings applicable to each issue, see original of that issue.		