

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: **Baseefa06ATEX0306U - Issue 7**

4 Component: **Type TX 3701.** / Type TX 3711.** 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**

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GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa06ATEX0306U - Issue 7

15 Description of Component

Type TX3701.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 3, 8, 26 or 37 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

Alternative higher voltage rating for the above 3 and 8 pin versions at up to 1500V a.c. or 1800V d.c.

Variation 0.2

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

Variation 0.3.

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 the above variation is designated as the

Type TX 3701.S / Type TX 3711.S Box Mounted Socket

Variation 0.4

To permit an interconnecting 3 to 8 way adaptor.

Variation 0.5

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 TX 3701.ES / Type TX 3711.ES Enclosure Mounted Socket

and is marked $\text{\textcircled{Ex}}$ I M2 Ex de I and/or $\text{\textcircled{Ex}}$ II 2G Ex de IIB

Type TX3701.PS / Type TX 3711.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 3, 8, 26 or 37 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 0.6

Alternative higher voltage rating for the above 3 and 8 pin versions at up to 1500V a.c. or 2000V d.c.

Variation 0.7

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

Variation 0.8

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 3701.** / TX 3711.** Socket is intended to be used in conjunction with a TX 3701.** / TX 3711.** Plug to form a TX3701 / TX3711 Connector as Baseefa06ATEX0308X.
2. The socket formed by variation 0.3 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 Baseefa06ATEX0306U or a blanking plug as covered by Certificate baseefa06ATEX0306U.
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 TX3701.ES / TX3711.ES socket connector is used, it shall be mounted to an enclosure in accordance with the certification drawings.
8. When the TX3701.ES / TX3711.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
P3701.607**	1 of 3	F	22.04.15	General Arrangement
P3701.608**	1 of 8	C	22.04.15	Plug Flange
P3701.608**	2 of 8	C	22.04.15	Socket
P3701.608**	3 of 8	C	22.04.15	Cover Shell (body machined)
P3701.608**	4 of 8	C	22.04.15	Locking Ring - Plug
P3701.608**	5 of 8	C	22.04.15	Locking Ring – Socket
P3701.608**	6 of 8	C	22.04.15	Locking Ring – Socket Ex de
P3701.608**	7 of 8	C	22.04.15	Plug Blank
P3701.608**	8 of 8	C	22.04.15	Socket Blank
P3701.738**	1 of 1	A	22/04/15	Label Details Group II (ATEX and IECEx) (Unique Variant - Aluminium version)
P3701.739**	1 of 1	A	22/04/15	Label Details Group II (ATEX and IECEx Aluminium version)

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
P3701.607**	2 of 3	E	02.02.15	General Arrangement
P3701.607**	3 of 3	E	02.02.15	General Arrangement
P3701.609**	1 of 4	B	08/09/02	Insert Body 26-Way
P3701.609**	2 of 4	B	08/09/02	Insert End 26-Way
P3701.609**	3 of 4	B	08/09/02	Insert Body 37-Way
P3701.609**	4 of 4	B	08/09/02	Insert End 37-Way
P3701.610**	1 of 5	B	08/09/02	Insert Body 3-Way (Front) High Voltage
P3701.610**	2 of 5	B	08/09/02	Insert Body 3-Way (Rear) High Voltage
P3701.610**	3 of 5	B	08/09/02	Insert Body 8-Way (Front) High Voltage
P3701.610**	4 of 5	B	08/09/02	Insert Body 8-Way (Rear) High Voltage
P3701.610**	5 of 5	B	08/09/02	Pin and Tube Sleeves
P3700.617***	1 of 1	A	20.05.02	Large Pins & Tubes, Small Pins & Tubes
P3701.735 ⁴	1 of 1	E	07/01/15	Label Details Group I & II (ATEX)
P3701.736**	1 of 1	B	21/01/15	Label Details Group I & II (ATEX and IECEx) (Unique Variant)
P3701-706-03**	1 of 1	A	27/03/14	Plug Blank, Extended

**These drawings are common to Baseefa06ATEX0306U, Baseefa06ATEX0308X, IECEx BAS 12.0036U and IECEx BAS 12.0037X and are held with IECEx BAS 12.0036U.

***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.

⁴This drawing is common to Baseefa06ATEX0306U and Baseefa06ATEX0308X and is held with the former.

20 Certificate History

Certificate No.	Date	Comments
Baseefa06ATEX0306U	24 th November 2006	The release of the prime certificate. The associated test and assessment is documented in the certification report 06(CI)0553.
Baseefa06ATEX0306U/1		Clarification of the drawing details to define the TX37*1.PS.08T.M32 and TX37*1.SS.08P.M32 cable mounted plug and cable mounted socket respectively. The units have 8 way contacts and are rated at 1500Vac and 2200Vdc, with a limit of 25A per contact and a maximum total of 100A. No report.
Baseefa06ATEX0306U/2	25 th August 2009	To include additional wording on the warning labels. Introduction of the Type TX3705 connector (removed at issue 3 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.
Baseefa06ATEX0306U/3	24 th April 2012	To clarify that the unit covered by Variation 0.5 of Baseefa06ATE0306U is designated as the Type TX37*0.ES Enclosure Mounted Socket . Minor drawing amendments to include amended codings, reflecting the amended certification standards as below. 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. To clarify the Type TX3705 (Baseefa06ATEX0306U/2) which is considered as removed from this certificate. No report.
Baseefa06ATEX0306U/4	2 nd April 2014	To allow the introduction of an alternative plug blanking cap. Certification report GB/BAS/ExTR14.0104/00 refers.
Baseefa06ATEX0306U/5	5 th March 2015	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. Introduction of two Schedule of Limitations applicable to the TX37*1.ES socket connector. Certification report GB/BAS/ExTR15.0013/00 refers.

Certificate No.	Date	Comments
Baseefa06ATEX0306U/6	13 th May 2015	Introduction of the aluminium version of the Type TX 3701.** Plugs, Sockets and Blanking Covers designated the Type TX 3711.** This aluminium version is for use in Group IIB applications only, i.e. it may not be used in Group I applications. Introduction of the Schedule of Limitation applicable to Ex enclosure mountable socket versions. Certification report GB/BAS/ExTR15.0100/00 refers.
Baseefa06ATEX0306U/7	19 th June 2015	Re-issue of the certificate to include certificate history and clarify certification. Clarification of the Schedule of Limitations. No report.
For drawings applicable to each issue, see original of that issue.		