



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa03ATEX0718U**

4 Component: **A Type TX6901 Enclosure**

5 Manufacturer: **T.E.L Engineering Limited trading as Trolex Engineering**

6 Address: **Stockport, Cheshire, SK7 5DA**

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T.E.L. ENGINEERING LIMITED

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd. 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. **03(C)0994**

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

EN 50014: 1997 + Amendments 1 & 2 **EN 50018:2000 + Amendment 1** **EN50281-1-1: 1998**

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 :

⊕ II 2 G D EEx d IIB IP66

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **1428**

Project File No. **03/0994**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa03ATEX0718U

15 Description of Component

A **TX6901 Enclosure** comprises a circular fabricated steel plate housing and flat cover. The housing has four thicker pad attached for cable entries or for the attachment of plugs and/or sockets as indicated below.

Type	Certificate	Code
TX3700.P	BAS02ATEX2278U	II 2 G EEx d IIB.
TX3700.S		
TX3701.P	BAS02ATEX2281U	
TX3701.S		

The cover is attached with 12 off M8 x 16mm long socket head cap screws of grade A2-70 stainless steel, and the interior is provided with a chassis plate for mounting equipment.

16 Report Number

Baseefa Certification Report 03(C)0994

17 Schedule of Limitations

This document covers only the empty enclosure. It does not cover the enclosure when used with internally fitted electrical components. When such components are fitted the arrangement must comply with the following limitations and be separately certified by the Certifying Authority.

1. Where necessary for safety, the contents of the enclosure shall comply with the appropriate requirements of relevant standards for electrical equipment.
2. Rotating or other devices which create turbulence shall not be incorporated.
3. Liquids shall not be used when there is risk of producing an explosive mixture by the decomposition of or release of oxygen by these liquids.
4. Primary and secondary cells and batteries shall only be used in accordance with Annex E of EN 50018.
5. Enclosures which can be opened more quickly than the time necessary for the discharge of incorporated capacitors, or the cooling of hot components shall be labelled AFTER DE-ENERGIZING, DELAY X MINUTES BEFORE OPENING or DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT.
6. Oil-filled circuit breakers and contactors shall not be used.
7. All entry or closure devices when fitted shall satisfy the requirements of flameproof joints or be specifically certified with the equipment and be suitable for the conditions of use
8. The content of the enclosed apparatus may be placed in any arrangement provided that an area of at least 20% of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion.
For the purposes of the above separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.

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- 9 No holes, whether for mechanical or electrical purpose and whether blind or clear, shall be drilled in the enclosure other than those shown on the Component Certificate drawings.
Any hole specified in the Component Certificate may be provided but only by the holder of the Component Certificate
 - 10 Any subsequent apparatus shall be marked indicating that cover screws of minimum grade A2-70 stainless steel shall be used, or any subsequent equipment certificate shall be marked with an "X", and shall specify that cover screws of minimum grade A2-70 stainless steel shall be used.
 - 11 The plugs and sockets are limited to 20A per pin and a total current of 100A.
 - 12 When Type TX3700 or TX3701 plugs and sockets are fitted, the devices must be used in conjunction with the appropriate mating cable or stopping devices as defined within the certificates.
 - 13 When in an explosive dust atmosphere the equipment certificate shall specify the need for the cable entries to maintain the ingress protection (IP66) of the enclosure.

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

<u>Number</u>	<u>Sheet</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
1/6900/102	1	F	20.11.03	General Assembly – TX6901 Enclosure
1/6900/102	2	F	20.11.03	Entry Details

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1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0718U/1**

4 Component: **Type TX6901 Enclosure**

5 Manufacturer: **T.E.L Engineering Limited (Trading as Trolex Engineering)**

6 Address: **Newby Road, Hazel Grove, Stockport, Cheshire, SK7 5DA**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0718U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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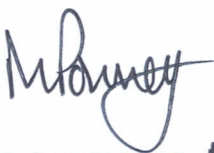

Baseefa Customer Reference No. **1428**

Project File No. **11/0135**

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Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.


P. S. SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa03ATEX0718U/1

15 Description of the variation to the Component

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Variation 1.1

Change to the plugs and/or socket details as below:-

Type	Certificate	Code
Type TX 3700 Connectors	Baseefa06ATEX0305U/1 Baseefa06ATEX0307X	⊕ II 2G Exd IIB
Type TX 3701 Connectors	Baseefa06ATEX0306U/1 Baseefa06ATEX0308X/1	

Variation 1.2

Minor changes to the drawing and the labelling.

The coding is amended to:-

⊕ II 2 GD Exd IIB Ex tD A21 IP66 or

⊕ II 2 G Exd IIB IP66

Variation 1.3

To confirm that the equipment covered by this certificate, as amended by the above changes, has been reviewed against the requirements of EN60079-0: 2006, EN60079-1: 2007, EN61241-0:2006 and EN61241-1:2004 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment.

16 Report Number

Baseefa Certification Report 11(C)0135

17 Schedule of Limitations

This document covers only the empty enclosure. It does not cover the enclosure when used with internally fitted electrical components. When such components are fitted the arrangement must comply with the following limitations and be separately certified by the Certifying Authority.

1. Where necessary for safety, the contents of the enclosure shall comply with the appropriate requirements of relevant standards for electrical equipment.
2. Rotating or other devices which create turbulence shall not be incorporated.
3. Liquids shall not be used when there is risk of producing an explosive mixture by the decomposition of or release of oxygen by these liquids.
4. Primary and secondary cells and batteries shall only be used in accordance with Annex E of EN 60079-1.
5. Enclosures which can be opened more quickly than the time necessary for the discharge of incorporated capacitors, or the cooling of hot components shall be labelled AFTER DE-ENERGIZING, DELAY X MINUTES BEFORE OPENING or DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT.



- 6 Oil-filled circuit breakers and contactors shall not be used.
- 7 All entry or closure devices when fitted shall satisfy the requirements of flameproof joints or be specifically certified with the equipment and be suitable for the conditions of use
- 8 The content of the enclosed apparatus may be placed in any arrangement provided that an area of at least 20% of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion.
For the purposes of the above separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5 mm.
- 9 No holes, whether for mechanical or electrical purpose and whether blind or clear, shall be drilled in the enclosure other than those shown on the Component Certificate drawings.
Any hole specified in the Component Certificate may be provided but only by the holder of the Component Certificate
- 10 Any subsequent apparatus shall be marked indicating that cover screws of minimum grade A2-70 stainless steel shall be used, or any subsequent equipment certificate shall be marked with an "X", and shall specify that cover screws of minimum grade A2-70 stainless steel shall be used.
- 11 The plugs and sockets are limited to 20A per pin and a total current of 100A.
- 12 When Type TX 3700 Connectors or Type TX 3701 Connectors are fitted, the devices must be used in conjunction with the appropriate mating cable or stopping devices as defined within the certificates.
- 13 When in an explosive dust atmosphere the equipment certificate shall specify the need for the cable entries to maintain the ingress protection (IP66) of the enclosure.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1/6900/250*	-	A	10 FEB 10	Approval Information

*This drawing is common to Baseefa03ATEX0718U/1 and Baseefa03ATEX0721X/1 and is held with the latter.

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