



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 02ATEX3420X** Issue: **3**

4 Equipment: **TX6661 Isolating Relay Unit**

5 Applicant: **Trolex Ltd**

6 Address: **Newby Rd
Hazel Grove
Stockport
Cheshire SK7 5DY
UK**

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012

EN 60079-5:2007

EN 60079-7:2007

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:




I M2

Ex eq I Mb

Ta = -20°C to +55°C

Project Number 70004760


P J Walsh
Technical Advisor

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The TX6661 uses relay boards that have been previously considered in Sira certificate number Sira 01ATEX2229X. These relay boards are housed inside a metal enclosure that is powder filled and sealed. The electrical parameters are as follows:

- I.S. terminals R1, R2, R3, R4 wrt 0V (to relay coil)
- Ui = 8.5 V (for the 9 V relays)
 - Ui = 13.0 V (for the 12 V relays)
- Relay contact terminals of Relays
- 1a, 1b and 1c
 - 2a, 2b and 2c
 - 3a, 3b and 3c
 - 4a, 4b and 4c
- Um = 375 Vpeak
Im = 5 A

Variation 1 - This variation introduced the following change:

- i. The introduction of a new label drawing; this modification reflects changes to other associated product types.

Variation 2 - This variation introduced the following change:

- i. Two additional cable entry holes were approved to be made in the enclosure walls of the non-intrinsically safe, Ex e, terminal chamber.

Variation 3 - This variation introduced the following changes:

- i. The values of Ui were increased from 7.7 V and 12.35 V to 8.5 V and 13.0 V respectively.
- ii. Following appropriate assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents previously listed in section 9, EN 50014:1997 (amendments A1 to A2), EN 50017:1998 and EN 50019:1994, were replaced by those currently listed, the markings in section 12 were updated accordingly and the special condition for safe use was added.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	28 April 2003	R52A8386A	The release of the prime certificate.
1	25 June 2003	R52A9995A	The introduction of Variation 1.
2	25 November 2003	R52A10861A	The introduction of Variation 2.

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Issue 3

Issue	Date	Report number	Comment
3	22 May 2014	R70004760A	This Issue covers the following changes: <ul style="list-style-type: none">All previously issued certification was rationalised into a single certificate, Issue 3, Issues 0 to 2 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.The introduction of Variation 3 as a result of the assessment, a Special Conditions for Safe Use was introduced and therefore an 'X' suffix was added to the certificate number.

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

15.1 All cables used for external connections shall be made by the use of suitably certified Ex e cable glands. The use of conduit is not permitted.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Any labels that are affixed to the printed circuit board, e.g. QA labels, shall not be placed on any of the electrical components in the equipment.

Certificate Annexe

Certificate Number: Sira 02ATEX3420X
Equipment: TX6661 Isolating Relay Unit
Applicant: Trolex Ltd



Issue 0

Drawing No.	Sheet	Rev.	Date	Title
P5531-02-06	1 of 1	A	08 Apr 03	TX6661 relay repeater unit, general arrangement
P5531.51	1 of 1	B	25 Mar 03	Input terminal board, PCB artwork, TX6661
P5531.52	1 of 1	B	18 Nov 02	Relay contact output terminal board, PCB artwork
P5111.89	1 of 1	A	11 Dec 96	Relay board PCB details
P5531.06	1 of 1	B	01 Apr 03	Relay PCB connections
P5531.09	1 of 1	A	26 Mar 03	Certification labelling

Issue 1

Drawing No.	Sheet	Rev	Date	Title
P5531-09	1 of 1	B	17 Jun 03	Certification labelling

Issue 2

Drawing No.	Sheet	Rev	Date	Title
P5531-02-06	1 of 1	B	03 Oct 03	TX6661 Relay Repeater Unit, General Arrangement

Issue 3

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
P5531-02-06	1	C	12 May 14	TX6661 Relay Repeater Unit, General Arrangement
P5531-09	1	D	12 May 14	Certification Labelling

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