

**EC TYPE-EXAMINATION CERTIFICATE**

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

Certificate Number: Sira 02ATEX3420

Equipment: TX6661 Isolating Relay Unit

Applicant: Trolex Ltd

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

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

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 confidential report number R52A8386A.

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 50014:1997 plus Amendments 1 and 2
EN 50017:1998
EN 50019:1994

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.

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.

The marking of the equipment shall include the following:



I M2

EEx eq I (Ta = -20°C to + 55°C)

Project Number 52A8386
Date 28 April 2003
C. Index 16

M D Shearman
Certification Manager

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Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England
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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 02ATEX3420

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)

U_i = 7.7 V (for the 9 V relays)

U_i = 12.35 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

U_m = 375 V_{peak}

I_m = 5 A

14 DESCRIPTIVE DOCUMENTS

14.1	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

14.2 Report No. R52A8386A

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

None

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 Report No. R52A8386A.

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.

Date 28 April 2003

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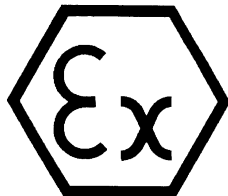
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**EC TYPE-EXAMINATION CERTIFICATE VARIATION****CERTIFICATE NUMBER** Sira 02ATEX3420 **Dated** 28 April 2003**VARIATION NUMBER** 1 (ONE) **Dated** 25 June 2003**VARIATION TO EQUIPMENT**

To permit:

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

DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
P5531-09	1 of 1	B	17 Jun 03	Certification labelling

ADDITIONAL CONDITIONS OF CERTIFICATION

None

File No 52A9995**Report No.** R52A9995A

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C Ellaby
Certification Officer**Sira Certification Service**Rake Lane, Eccleston, Chester, CH4 9JN, England
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EC TYPE-EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER Sira 02ATEX3420 Dated 28 April 2003

VARIATION NUMBER 2 (TWO) Dated 25 November 2003

VARIATION TO EQUIPMENT

To permit:

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

DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
P5531-02-06	1 of 1	B	03 Oct 03	TX6661 Relay Repeater Unit, General Arrangement

ADDITIONAL CONDITIONS OF CERTIFICATION

None

File No 52A10861

Report No. R52A10861A

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C Ellaby
Certification Officer

