

**Australian/New Zealand  
Certification Scheme for  
EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT  
ANZEx Scheme**

***Certificate of Conformity***

Certificate No.: ANZEx 12.3005X

Issue No.: 0

Date of Issue: 2012-05-11

**Applicant:** Trolex Limited  
Newby Road, Hazel Grove  
Stockport, Cheshire, SK7 5DY  
UK

**Electrical Apparatus:** TX6831 Audio/Visual Alarm

**Type of Protection:** Intrinsic Safety 'ia'

**Marking Code:** ANZEx 12.3005X  
Ex ia I  
Ta = -20 °C to +60 °C

**Manufacturer:** Trolex Limited  
Newby Road, Hazel Grove  
Stockport, Cheshire, SK7 5DY  
UK

**Manufacturing Location(s):** Trolex Limited  
Newby Road, Hazel Grove  
Stockport, Cheshire, SK7 5DY  
UK

*The EPEE certification database located at <http://www.anzex.com.au> shows the validity of this Certificate.*

This certificate and schedule shall not be reproduced except in full

 <p><b>Test Safe</b> AUSTRALIA</p>	<p><b>Certificate issued by:</b></p> <p style="text-align: center;"><i><b>TestSafe Australia</b></i> 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 <a href="http://www.testsafe.com.au">http://www.testsafe.com.au</a></p>	 <p><b>JAS-ANZ</b></p> <p style="text-align: center;"><a href="http://www.jas-anz.com.au/register">www.jas-anz.com.au/register</a></p>
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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication MP87.1:2008.*

**STANDARDS:**

*The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:*

AS/NZS 60079-0:2005	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
AS/NZS 60079-11:2006	Explosive atmospheres - Part 11: Equipment protection by Intrinsic safety "i"
AS 60529:2004	Degree of protection provided by enclosures (IP code)

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standard(s) listed above.*

**ASSESSMENT & TEST REPORTS:**

*The equipment listed has successfully met the assessment and test requirements as recorded in:*

Test Report No. and Issuing Body:	33376 ; TestSafe
Quality Assessment Report No. and Issuing Body:	GB/SIR/QAR07.0017/02 ; Sira
File Reference:	2011/021892



**Debbie Wouters**

*Signed for and on behalf of issuing body*

**Acting Quality & Certification Manager**

*Position*

11 MAY 2012

*Date of Issue*

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**This certificate is not transferable and remains the property of the issuing body and must be returned in the event of it being revoked or not renewed.**

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### Schedule

**EQUIPMENT:**

The TX6831 Audio/Visual Alarm provides a visual and audible indication of a malfunction in an associated sensor to which it is connected. When the sensor output is at a normal level, the equipment emits a light pulse every 15 seconds, verifying that the unit is working. If the output exceeds a preset limit, the flash rate increases to once per second, indicating an alarm condition. There is an optional integral sounder to provide an audible warning.

The equipment comprises four circuit boards, the Power Supply Board, Control Board and two LED Boards. They are housed in an enclosure comprising a base moulding and a lens moulding. The base is made of stainless steel-filled polycarbonate and the lens is polycarbonate impregnated with an anti-static coating.

The equipment mounts directly on top of the sensor, with a gasket seal to ensure an ingress protection of at least IP66. A labyrinth seal around the sounder maintains the ingress rating. The sensor is not within the scope of this report.

**CONDITIONS OF CERTIFICATION:**

It is a condition of safe use that the following entity parameters for the terminals shall be taken into account during installation:

	Input parameters	
	Power Supply terminal	Other terminals
Maximum Supply Voltage $U_i$	16.5V	16.5V
Maximum Input Capacitance $C_i$	3.18uF	0uF
Maximum Input Inductance $L_i$	0mH	0mH

**DOCUMENTS:**

Document Number	Sheets	Document Title	Rev.	Date (yyyy-mm-dd)
P5459.01	2	Certified Circuit Diagram	C	2012-05-09
P5459.02	1	General Arrangement	B	2003-02-04
P5459.03	1 of 5	Power Input P.C.B. Manufacturing Specification	A	2000-04-04
P5459.03	2 of 5	Power Input P.C.B. Top Overlay	A	2000-04-04
P5459.03	3 of 5	Power Input P.C.B. Top Layer	A	2000-04-04

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Document Number	Sheets	Document Title	Rev.	Date (yyyy-mm-dd)
P5459.03	4 of 5	Power Input P.C.B. Bottom Layer	A	2000-04-04
P5459.03	5 of 5	Power Input P.C.B. Bottom Overlay	A	2000-04-04
P5459.05	1 of 5	Control P.C.B. Manufacturing Specification	A	2000-04-04
P5459.05	2 of 5	Control P.C.B. Top Overlay	A	2000-04-04
P5459.05	3 of 5	Control P.C.B. Top Layer	A	2000-04-04
P5459.05	4 of 5	Control P.C.B. Bottom Layer	A	2000-04-04
P5459.05	5 of 5	Control P.C.B. Bottom Overlay	A	2000-04-04
P5459.27	1	Certification Labelling Australia	B	2012-04-12

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