

United Kingdom

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx SIR 15.0059X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 1	lssue 0 (2015-08-10)
Date of Issue:	2024-03-21		
Applicant:	Trolex Limited Newby Road Hazel Grove Stockport SK7 5DY United Kingdom		
Equipment:	TX6831 Audio/Visual Alarm		
Optional accessory:			
Type of Protection:	Intrinsically Safe		
Marking:	Ex ia I Ma		
	Ta = -20°C to+60°C		
Approved for issue o Certification Body:	n behalf of the IECEx	Michelle Halliwell	
Position:		Director Operations, UK & Industrial Europe	
Signature: (for printed version)			
Date:			
(for printed version)			
 This certificate and s This certificate is not The Status and auth 	chedule may only be reproduced in full. transferable and remains the property of the issuing body enticity of this certificate may be verified by visiting www.i	y. ecex.com or use of this QR Code.	
Certificate issued	by:		
CSA Group Te Unit 6, Hawarde Hawarden, Dees	s ting UK Ltd n Industrial Park ide CH5 3US	(SP a	SA ROUP

IECEX	IECEx Certificate of Conformity			
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Date of issue:	2024-03-21	Issue No: 1		
Manufacturer:	Trolex Limited Newby Road Hazel Grove Stockport SK7 5DY United Kingdom			
Manufacturing locations:	Trolex Limited Newby Road Hazel Grove Stockport SK7 5DY United Kingdom			

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment 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

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/SIR/ExTR15.0189/00

GB/SIR/ExTR24.0035/00

Quality Assessment Report:

GB/SIR/QAR07.0017/12



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2024-03-21

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 signal 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 pre-set limit, the flash rate increases to once per second, indicating that an alarm condition has occurred. There is an optional integral sounder to provide an audible warning.

The equipment is housed in an enclosure comprising a base moulding and a lens moulding. The base is manufactured from stainless steelfilled polycarbonate or stainless steel filled Nylon 6 and the lens from anti-static polycarbonate or polycarbonate impregnated with an antistatic coating.

The equipment mounts directly on top of the sensor, with a gasket seal to ensure an ingress protection of at least IP54. A labyrinth seal around the sounder maintains the ingress rating.

Four wires exit the equipment: two for connection to a suitable power supply and two for connection to the output signal terminals of the sensor.

Refer to the Annexe for the Parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Under normal or fault conditions, the internal temperature of this equipment may rise above 150°C; therefore, care shall be taken when the enclosure is opened to ensure that no dust enters the equipment.
- 2. The antistatic coating can be adversely affected by contact with acid or damage to the lens. Suitable precautions shall be taken to avoid such instances and the lens shall be inspected periodically for any damage.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

2024-03-21

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Ed. 6 was replaced with IEC 60079-0:2017 Ed.7.

Annex:

IECEx SIR 15.0059X Annexe Issue 1.pdf

Annexe to: I ECEx SI R 15.0059X I ssue 1

Applicant: Trolex Limited



Apparatus: TX6831 Audio/ Visual Alarm

The nominal voltage range is 7.5 V to 16.5 V dc. The safety description is as follows:

Power input (Red and Black Wire)					
Ui = 16.5 V	Ci = 1.2 nF	Li = 0			
Input signal (Yellow and Green Wire)					
Ui = 16.5 V	Ci = 0	Li = 0			
Monitor trip voltage (Test point)					
Ui = 16.5 V	Ci = 0	Li = 0			

Conditions of Manufacture

1. The TX6831 Audio/Visual Alarm incorporates a previously certified fuse IECEx BAS 10.0098U. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device. The manufacturer shall inform Sira of any modifications to the device that may impinge upon the explosion safety design of the TX6831 Audio/Visual Alarm.

Full certificate change history

I ssue 1 – this Issue introduced the following change:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, IEC 60079-0:2011 Ed. 6 was replaced with IEC 60079-0:2017 Ed.7.