



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 05ATEX2128U

4 Component: CSL ExFuse

5 Applicant: Controlled Systems Limited

6 Address: Ryder Close
Cadley Hill
Swadlincote
Derbyshire
DE11 9EU
UK

7 This component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component 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 R52A13320A.


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:

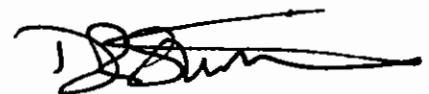
EN50014:1997 + Amendments 1 and 2
EN50020:2002
EN50284:1999
EN50303:2000

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

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

12 The marking of the component shall include the following:

 I M1/II 1G
EEx ia I/II



D R Stubbings BA MIEE
Certification Manager

Project Number 52A13320
Date 13 July 2005
C. Index 18

This certificate and its schedules may only be reproduced in its entirety and without change

Sira Certification Service

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 05ATEX2128U

13 DESCRIPTION OF COMPONENT

The CSL ExFuse Series is a range of encapsulated fuses that are used in Intrinsically Safe Equipment; the following CSL ExFuse ratings are available:

63 mA	200 mA	500 mA	1.0 A
125 mA	250 mA	630 mA	1.25 A
160 mA	315 mA	800 mA	1.6 A

14 DESCRIPTIVE DOCUMENTS

Drawing No.	Sheet	Rev.	Date	Title
ExFuse	1 of 1	3	27 Jun 05	CSL ExFuse encapsulation

14.2 Report number R52A13320A

15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 The method used for mounting the fuse shall not reduce the creepage, clearance and separation distances.
- 15.2 When the CSL ExFuse is incorporated into equipment, the following surface temperature rises associated with the fuses will be considered when determining the overall temperature classification of the equipment.

Fuse rating	Maximum surface temperature rise at 1.7 times In
63 mA to 800 mA	35 K
1.0 A to 1.6 A	55 K

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 number R52A13320A.

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 Each CSL ExFuse shall contain one of the following Wickmann/Littelfuse type 372/TR5® subminiature fuse links:

63 mA	200 mA	500 mA	1.0 A
125 mA	250 mA	630 mA	1.25 A
160 mA	315 mA	800 mA	1.6 A

17.4 The CSL ExFuse is a small electrical component and, due to limited space all the marking required by clause 1.0.5 of the ATEX Directive cannot appear on the label; the following information will therefore appear on the packaging:

- Year of manufacture.
- Unique batch number.
- Identifying number of the notified body responsible for production control.
- The name and address of the manufacturer.

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