



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 07ATEX2065** Issue: **3**

4 Equipment: **9468-ET Ethernet Isolator**

5 Applicant: **Controlled Systems Limited**

6 Address: **Ryder Close  
Cadley Hill  
Swadlincote  
Derbyshire  
DE11 9EU  
UK** (These products may be manufactured at any facility listed on Quality Assurance Notification Sira 98 ATEX M 034 that has been audited for the manufacture of the type of protection listed)

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 60079-0:2006      EN 60079-11:2007      IEC 61241-0:2004      IEC 61241-11:2005  
IEC 60079-26:2006 (For guidance for the Ga and Ma marking)

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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:



II (1) GD



I (M1)  
(Ga) [Ex ia] IIC  
[Ex iaD]  
(Ma) [Ex ia] I  
(Ta = -40°C to +70°C)

Project Number 80073054

Signed: J A May

Title: Director of Operations

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**CSA Group Netherlands B.V.**  
Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The 9468-ET Ethernet Isolator Module, rated supply voltage (terminals T1, T2 wrt T3, T4) 30 Vdc maximum, is intended for location in a non-hazardous (safe) area and is designed to extend an Ethernet network into a hazardous area, it also acts as an isolating interface between a 9400 Series Ethernet network in the hazardous area and equipment in the safe area. The Cat5e/Cat6 Ethernet LAN cable is capable of going into/through Zones 2, 1 and 0 of the hazardous area.

The electronic components of the 9468-ET Ethernet Isolator Module are mounted on printed circuit boards within a plastic enclosure that is designed for mounting on a DIN rail. External electrical connections are made via screw type terminals and/or connectors mounted on the top of the enclosure. The Module may optionally be encapsulated, but this is not a requirement of this certification.

The 9468-ET Ethernet Isolator Module has the following safety description:

<b>(Safe area supply input)</b>	
Terminals T1, T2 wrt T3, T4	
Um	= 250 V

<b>(Intrinsically safe power supply input – optional PoEx)</b>	
Terminal T14 wrt T15 coloured blue	
Ui	= 15.4 V
Ci	= 0.075 µF
Li	= 0

<b>RJ45 connector to/from the hazardous area (10/100 Base T)</b> Coloured blue, marked 'HAZARDOUS AREA' 'LAN' For connection to RJ45 connector on other 9400 Series Ethernet Modules only Ethernet port, intended for connection only to other RJ45 connectors on other 9400 Series Ethernet Modules, all powered from a single intrinsically safe supply. Connection to other Ethernet Systems requires special consideration and is outside the scope of this certificate.
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<b>No power supply connected to terminals T14 wrt T15</b>
Uo = 0 Vdc
Io = 0 Adc
Po = 0 W dc
Ci = 0.075 µF
Li = 0

<b>Intrinsically safe power supply connected to terminals T14 wrt T15</b>
Uo = Uo of intrinsically safe power supply connected to terminals T14 wrt T15
Io = Io of intrinsically safe power supply connected to terminals T14 wrt T15
Po = Po of intrinsically safe power supply connected to terminals T14 wrt T15
Co = Co of intrinsically safe power supply connected to terminals T14 wrt T15 (less 0.075 µF and any cable capacitance at the terminals T14 and T15)
Lo = Lo of intrinsically safe power supply connected to terminals T14 wrt T15 (less any cable inductance at the terminals T14 and T15)
Ui = 0

<b>RJ45 connector to/from the safe area</b> Marked 'SAFE AREA' 'LAN' (10/100 Base T)
Um = 250 V



## SCHEDULE

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#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	8 May 2008	R52A17748B	The release of the prime certificate.
1	16 June 2008	R52A17748D	The re-issue of the prime certificate to correct marking details and clarify the description.
2	31 October 2019	3093	This Issue covers the following changes: <ul style="list-style-type: none"><li>• Transfer of certificate Sira 07ATEX2065 from Sira Certification Service to CSA Group Netherlands B.V..</li><li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. (In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</li></ul>
3	20 August 2021	N/A	The certificate was amended to remove typographical errors in the address and description of equipment.

#### 15 SPECIFIC CONDITIONS OF 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 the reports listed in Section 14.2.

# Certificate Annexe



Certificate Number: Sira 07ATEX2065  
Equipment: 9468-ET Ethernet Isolator  
Applicant: Controlled Systems Limited

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## Issue 0

Number	Sheets	Rev.	Date	Description
CSL-ZENER	1 of 1	3	28 Jan 03	Zener diode assembly
13003-PCB	1 of 1	Orig.	23 Aug 02	Zener PCB

## 9468-ET Ethernet Isolator Module

Number	Sheets	Rev.	Date	Description
9468-ASSY	1 of 1	1	26 Oct 07	General Assembly, Ethernet Isolator
9468-PSU	1 of 1	4	04 Apr 08	Circuit Diagram, Ethernet Isolator PSU Board
9468-BX	1 of 1	5	29 Mar 08	Circuit Diagram, Ethernet Isolator Main Board
9468-PSU PCB	1 of 1	4	04 Apr 08	Ethernet Isolator PSU Board Artworks
9468-BX PCB	1 of 1	5	29 Mar 08	Ethernet Isolator Main Board Artworks
TFR305	1 & 2	2	10 Dec 07	Transformer T5 (TRF305) details
9468-Label ATEX	1 of 1	2	25 Apr 08	Label Details, Ethernet Isolator Module

## Issue 1

### 9468-ET Ethernet Isolator Module

Number	Sheets	Rev.	Date	Description
9468-Label ATEX	1 of 1	3	07 Jun 08	Label Details, Ethernet Isolator Module

Issue 2 – No new drawings were introduced.

Issue 3 – No new drawings were introduced.

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