



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 09ATEX9086X** Issue: **2**

4 Equipment: **Ferrogard GD2-FRS21** Magnetically Actuated Safety Switches**

5 Applicant: **Rockwell Automation Inc.**

6 Address: 1201 S 2nd Street
Milwaukee
Wisconsin 53204
United States of America

7 This equipment 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 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 60079-0:2012/A11:2013 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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 2D

Ex tb IIIC T144°C Db Ta = -25°C to +100°C

Project Number 70072867


N Jones
Certification Manager

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

Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 09ATEX9086X
Issue 2**

13 DESCRIPTION OF EQUIPMENT

The Ferrogard and is a magnetically actuated safety switch, it comprises one or two N/C safety contacts rated at 250 Vac, 2 A or 24 Vdc, 1A and one or none auxiliary contacts rated at 250 Vac/300 Vdc, 0.5A.

The housing is constructed from stainless steel grade 304, the body is 33.5 x 16 x 78.5 mm with the bottom face of the housing sealed with moulding resin. The switch is fitted with a pre-assembled cable with unprepared cable end.

The switch is used in a range of industrial safety applications.

Variation 1 - This variation introduced the following change:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 61241-0:2006 and EN 61241-1:2004 were replaced by EN 60079-0:2012 and EN 60079-31:2014.
- ii. The applicant's name and address was changed from Rockwell Automation Ltd, Hindley Green Industrial Estate, Wigan WN2 4HR, United Kingdom to Rockwell Automation Inc.1201 S 2nd Street, Milwaukee, Wisconsin 53204, United States of America.
- iii. The product name was changed from Ferrogard GD2 to Ferrogard GD2-FRS21**.
- iv. The marking relating to 'Type n' approval was removed from the label.

The models covered are:

Model Name	Model Number	Description
GD2 FRS21AC	440N-G02117	(Magnetically actuated safety switch, 3 m cable)
GD2 FRS21DC	440N-G02123	(Magnetically actuated safety switch, 3 m cable)
GD2 FRS21DC	440N-G02143	(Magnetically actuated safety switch, 6 m cable)
GD2 FRS21DC	440N-G02137	(Magnetically actuated safety switch, 10 m cable)
GD2 FRS21DC	440N-G02149	(Magnetically actuated safety switch, 8 pin M12 micro)

Variation 2 - This variation introduced the following change:

- i. The introduction of a model numbering system to provide a better breakdown of 'Ferrogard' GD2-FRS21** series magnetically actuated safety switches. The currently certified model designs being assigned the following model numbers with no new configurations introduced as part of this assessment:

Model No.	Description:
440N-G02117	Magnetically actuated safety switch, 3 m cable
440N-G02123	Magnetically actuated safety switch, 3 m cable
440N-G02143	Magnetically actuated safety switch, 6 m cable
440N-G02137	Magnetically actuated safety switch, 10 m cable
440N-G02149	Magnetically actuated safety switch, 8 pin M12 micro

- ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012, was replaced by EN 60079-0:2012/A11:2013.

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

Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 09ATEX9086X
Issue 2

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	02 June 2009	R59A18512B	The release of the prime certificate.
1	02 July 2015	R70011259A	The introduction of Variation 1.
2	21 June 2016	R70075867A	This Issue covers the following changes: <ul style="list-style-type: none">• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(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.)</i>• The introduction of Variation 2.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The cable is to be terminated within a suitably certified enclosure.

15.2 Protection from impact, UV and electrostatic charging is to be provided to the non-metallic part of switch by installing switch with metallic part facing outwards.

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.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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

Certificate Annexe



Certificate Number: Sira 09ATEX9086X
Equipment: Ferrogard GD2-FRS21** Magnetically Actuated Safety Switches
Applicant: Rockwell Automation Inc.

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
3770	1 of 1	C	03 Apr 09	Ferrogard GA

Issue 1

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
37770	1 of 1	02	23-Jun-2015	FRS GD2 Ex Switches

Issue 2

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
37770	1 of 1	03	31 May 16	FRS GD2 Ex Switches

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

Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org