



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 12ATEX1098X** Issue: **3**

4 Equipment: **SOLDO™ SK and SQ series limit switch boxes**

5 Applicant: **Rotork Instruments Italy srl**

6 Address: Via Portico 17
24050
Orio al Serio (BG)
Italy

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 60079-1:2014 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 2GD
Ex db IIC T6 Gb
Ex tb IIIC T85°C Db
Ta = -55°C ≤ Ta ≤ 60°C



II 2GD
Ex db IIC T5 Gb
Ex tb IIIC T100°C Db
Ta = -55°C ≤ Ta ≤ 80°C



II 2GD
Ex db IIC T4 Gb
Ex tb IIIC T135°C Db
Ta = -55°C ≤ Ta ≤ 105°C

Project Number 70117825

R A Craig
Certification Support Officer

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 12ATEX1098X
Issue 3**

13 DESCRIPTION OF EQUIPMENT

The SK and SQ series limit switch boxes are electromechanical devices used to indicate the position of valves/actuators etc. by means of an electrical signal and an optional visual indicator. The metallic enclosure is constructed from 316 or 316L stainless steel (SQ) or aluminium (SK) and comprises of two enclosure halves secured with 4 x M6 stainless steel fasteners with a minimum property class of 500 MPa. An operating rod passes through each enclosure half for connection to the device being monitored. The rod operates the internal switch/sensor for signalling and passes through to the external indicator (when fitted). There are two threaded entries (M20 or 1/2" NPT) into the enclosure for cable entry.



Voltage: 125 Vdc /250 VAC max
Current: 10 A max
Maximum dissipated power inside: 10 W

Variation 1 - This variation introduced the following changes:

- i. The introduction of an alternative material, sintered bronze, for the shaft bushing fitted in the cover and body.
- ii. The introduction of an alternative shaft and bushing arrangement.

Variation 2 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously listed in section 9, IEC 60079-0:2011 Ed 6, EN 60079-1:2007 and EN 60079-31:2009, were replaced by EN 60079-0:2012/A11:2013, EN 60079-1:2014 and EN 60079-31:2014, the product markings were updated accordingly.
- ii. Removal of the following previous scheduled certification name plate drawings that are no longer required to support production and are only retained for reference:

Drawing	Rev.	Title
SD-0211055-01	1	SK metal plate IP66-67 ATEX/IECEx certification
SD-0211054-01	1	SQ metal plate IP66-68 10m ATEX/IECEx certification
SD-0211053-01	1	SQ metal plate IP66-67 ATEX/IECEx certification
SD-0211056-01	1	SK metal plate IP66-68 10m ATEX/IECEx certification

Variation 3 - This variation introduced the following changes:

- i. The Applicants name and address were changed as follows:

From:	To:
Soldo srl	Rotork Instruments Italy srl
Via Monte Baldo 60	Via Portico 17
25015	24050
Desenzano del Gards (BS)	Orio al Serio (BG)
Italy	Italy

- ii. SOLDO™ was introduced to the front of the equipment name in Section 4.

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Sira Certification Service

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Hawarden, CH5 3US, United Kingdom

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SCHEDULE

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iii. The introduction of an alternative manufacturing location at Fairchild Industrial Products Co., 3920 West Point Blvd., Winston-Salem, North Carolina 27103, USA was recognised,

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	16 July 2012	R26217A/00	The release of the prime certificate.
1	04 January 2016	R70022516A	The introduction of Variation 1.
2	29 June 2016	R70072567A	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.
3	24 March 2017	R70117825A R70126567A	The introduction of Variation 3.

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

15.1 Electrostatic risk – When units are fitted with a non-conducting position indicator, this could potentially generate an ignition-capable level of electrostatic charges under certain extreme conditions. Therefore, these units shall not be installed in a location where they may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on the non-conducting surfaces. Additionally, cleaning of the equipment shall be done only with a damp cloth.

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.

17.3 The power dissipation inside the flameproof enclosure shall not exceed 10 W.

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Certificate Annexe



Certificate Number: Sira 12ATEX1098X
Equipment: SOLDO™ SK and SQ series limit switch boxes
Applicant: Rotork Instruments Italy srl

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
SL-0202069-00	1 of 1	0	02 Jul 12	Coperchio SQ certificazione ATEX IECEX UL
SL-0202070-0	1 of 1	0	02 Jul 12	Coperchio SK certificazione ATEX IECEX UL
SL-0201096-00	1 of 1	0	02 Jul 12	Corpo SK certificazione ATEX IECEX UL
SL-0201093-00	1 of 1	0	16 Jul 12	Corpo SQ certificazione ATEX IECEX UL
SL-0204138-00	1 of 1	0	02 Jul 12	Stelo Corpo SK-SQ certicazione ATEX
SL-0204140-00	1 of 1	0	02 Jul 12	Stelo Coperchio SK-SQ certicazione ATEX
SL-0208046-00	1 of 1	0	02 Jul 12	Vite coperchio SK-SQ certificazione atex
SD-0207019-00	1 of 1	0	02 Jul 12	O-ring shaft SK-SQ certification ATEX IECEX UL
SL-0207020-00	1 of 1	0	02 Jul 12	O-ring coperchio SK-SQ certification ATEX
SD-0211055-01*	1 of 1	1	02 Jul 12	SK metal plate IP66-67 ATEX/IECEX certification
SD-0211054-01*	1 of 1	1	02 Jul 12	SQ metal plate IP66-68 10m ATEX/IECEX certification
SD-0211053-01*	1 of 1	1	06 Jul 12	SQ metal plate IP66-67 ATEX/IECEX certification
SD-0211056-01*	1 of 1	1	02 Jul 12	SK metal plate IP66-68 10m ATEX/IECEX certification
SD-0225231-00	1 of 1	0	02 Jul 12	Assieme SQ-SK certificazione ATEX IECEX UL
SD-0225228-00	1 of 1	0	02 Jul 12	SK assembly
SD-0225232-00	1 of 1	0	02 Jul 12	SQ assembly

*Drawing no longer required, refer to Variation 2.

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
SD-0204184-01	1	1	02 Nov 15	Shaft body SQ sintered bronze bush approval ATEX-IECEX-UL
SD-0204185-01	1	1	02 Nov 15	Shaft cover SQ sintered bronze bush approval ATEX-IECEX-UL
SD-0204186-01	1	1	02 Nov 15	Shaft body SK sintered bronze bush approval ATEX-IECEX-UL
SD-0204187-01	1	1	02 Nov 15	Shaft cover SK sintered bronze bush approval ATEX-IECEX-UL
SD-0225293-00	1	0	02 Nov 15	SQ Assembly Certificazione ATEX-IECEX
SD-0225295-00	1	0	02 Nov 15	SK Assembly Certificazione ATEX-IECEX
SD-0202093-00	1	0	02 Nov 15	Cover SK Certificazione ATEX-IECEX
SD-0201132-00	1	0	02 Nov 15	Corpo SQ Certificazione ATEX-IECEX
SD-0202091-00	1	0	02 Nov 15	Cover SQ Certificazione ATEX-IECEX
SD-0201130-00	1	0	02 Nov 15	Corpo SK Certificazione ATEX-IECEX
SL-0206011-01	1	1	02 Nov 15	Sintered bush
SD-0213155-00	1	0	02 Nov 15	Retaining ring UNI 7434-8

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
SD-0211055-02	1 of 1	2	10 Jun 16	SK metal plate IP66-67 ATEX/IECEX certification
SD-0211054-02	1 of 1	2	10 Jun 16	SQ metal plate IP66-68 10m ATEX/IECEX certification
SD-0211053-02	1 of 1	2	10 Jun 16	SQ metal plate IP66-67 ATEX/IECEX certification
SD-0211056-02	1 of 1	2	10 Jun 16	SK metal plate IP66-68 10m ATEX/IECEX certification

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
SD-0211053-03	1 of 1	03	08 Feb 17	SQ metal plate IP66-67 ATEX/IECEX certification
SD-0211054-03	1 of 1	03	08 Feb 17	SQ metal plate IP66-68 10m ATEX/IECEX certification
SD-0211055-03	1 of 1	03	08 Feb 17	SK metal plate IP66-67 ATEX/IECEX certification
SD-0211056-03	1 of 1	03	08 Feb 17	SK metal plate IP66-68 10m ATEX/IECEX certification

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