



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 12ATEX1299** Issue: **2**

4 Equipment: **SOLDO™ Junction Box (JB) and Easy Switch (ES)**

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 60079:2012/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 T# Gb

Ex tb IIIC T#°C Db

Ta = -65°C ≤ Ta ≤ #°C

(# The Temperature Classes and Maximum Surface Temperatures for Dust depend upon the ambient temperature ranges, see table in section 13)

Project Number 70117825

R A Craig
Certification Support Officer

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Soldo Junction Box and the Soldo Easy Switch both use an enclosure that has an internal volume of less than 100 cm³ and is made up from two parts, a bottom part (base) and a threaded lid. The base and the lid, which screw together, can be manufactured from either cast aluminium or stainless steel. Threaded cable entries (either M20 or 1/2"NPT) in the base allow connections of the terminal block to external equipment. There are two configurations:

- The Soldo Junction Box (JB 01) has an internally mounted terminal block and PCB; this is housed in the base which has two threaded entries.
- The Soldo Easy Switch (ES) contains an internally mounted terminal block and PCB with attaching micro-switches or reed switches; these are housed in the base which has a single threaded entry.

It is envisaged that these devices may be used in situations where the process temperature of the equipment to which they are attached could be in excess of their maximum ambient temperature limit, if this the case, then a method of protecting the devices must be provided such that their maximum ambient temperature is observed (see manufacturer's instructions). The applicable ambient temperature ranges and corresponding Temperature Classes and Maximum Surface Temperatures for Dust are detailed in the table below:

| Ambient temperature range | Temperature Class | Maximum Surface Temperatures for Dust |
|---------------------------|-------------------|---------------------------------------|
| -65°C ≤ Ta ≤ 70°C | T6 | T85°C |
| -65°C ≤ Ta ≤ 85°C | T5 | T100°C |
| -65°C ≤ Ta ≤ 120°C | T4 | T135°C |
| -65°C ≤ Ta ≤ 150°C | T3 | T200°C |

The ratings are:

Voltage: 125Vdc /250VAC max Current: 5A max

Maximum dissipated power inside: 3Watts (Easy switch) 1Watt (Junction Box)

Variation 1 - This variation introduced the following changes:

- Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously listed in section 9, EN 60079-0:2012, 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.
- To recognise a change to the Junction Box model series number from (JB01) to (JB).
- 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 |
|--------------|------|-----------------------------|
| SD0211051-00 | 00 | Easy switch metal nameplate |
| SD0211069-00 | 00 | JB01 Metal nameplate |



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Variation 2 - 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.
- 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 no. | Comment |
|-------|-----------------|--------------------------|---|
| 0 | 25 January 2013 | R27802A/00 | The release of the prime certificate. |
| 1 | 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 1. |
| 2 | 24 March 2017 | R70117825A R70126567A | The introduction of Variation 2. |

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.

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.

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Sira Certification Service

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- 17.3 The manufacturer's instruction documents shall contain clear information that advises the user about the restrictions associated with process temperatures and the precautions that may need to be observed, this information shall remain constant in any subsequent issues of their instruction documents.

Certificate Annexe



Certificate Number: Sira 12ATEX1299

Equipment: SOLDOTM Easy Switch (ES) and Junction Box (JB)

Applicant: Rotork Instruments Italy srl

Issue 0

| Drawing | Sheets | Rev. | Date (Sira Stamp) | Title |
|---------------|--------|------|-------------------|----------------------------------|
| SD-0201104-00 | 1 of 1 | 00 | 10 Jan 13 | Corpo Alluminio junction box |
| SD-0201105-00 | 1 of 1 | 00 | 10 Jan 13 | Corpo Alluminio easy switch |
| SD-0201108-00 | 1 of 1 | 00 | 10 Jan 13 | Corpo INOX junction box |
| SD-0201109-00 | 1 of 1 | 00 | 10 Jan 13 | Corpo INOX easy switch |
| SD-0202075-00 | 1 of 1 | 00 | 10 Jan 13 | Coperchio INOX easy switch |
| SD-0202076-00 | 1 of 1 | 00 | 10 Jan 13 | Coperchio alluminio easy switch |
| SD-0225255-00 | 1 of 1 | 00 | 10 Jan 13 | Part list Junction Box Alluminio |
| SD-0225256-00 | 1 of 1 | 00 | 10 Jan 13 | Part list Easy Switch Alluminio |
| SD-0225260-00 | 1 of 1 | 00 | 10 Jan 13 | Part list Easy Switch INOX |
| SD-0225261-00 | 1 of 1 | 00 | 10 Jan 13 | Part list Junction Box INOX |
| SD0211051-00* | 1 of 1 | 00 | 22 Jan 13 | Easy switch metal nameplate |
| SD0211069-00* | 1 of 1 | 00 | 25 Jan 13 | JB01 Metal nameplate |

*Drawing no longer required, refer to Variation 1.

Issue 1

| Drawing | Sheets | Rev. | Date (Sira stamp) | Title |
|--------------|--------|------|-------------------|-----------------------------|
| SD0211051-01 | 1 of 1 | 1 | 10 Jun 16 | Easy switch metal nameplate |
| SD0211069-01 | 1 of 1 | 1 | 10 Jun 16 | JB Metal nameplate |

Issue 2

| Drawing | Sheets | Rev. | Date (Sira stamp) | Title |
|---------------|--------|------|-------------------|---|
| SD-0211051-02 | 1 of 1 | 02 | 08 Feb 17 | Easy switch metal nameplate certificazione ATEX-IECEX |
| SD-0211069-02 | 1 of 1 | 02 | 08 Feb 17 | JB metal nameplate certificazione ATEX-IECEX |

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