



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX SIR 12.0134** issue No.: **2**

Status: **Current**

Date of Issue: **2017-03-24** Page 1 of 5

Applicant: **Rotork Instruments Italy srl**  
Via Portico 17  
24050  
Orio al Serio (BG)  
Italy

Equipment: **SOLDO™ Easy Switch and Junction Box**  
Optional accessory:

Type of Protection: **Flameproof and Dust Protection by Enclosure**

Marking: **Ex db IIC T6/5/4/3 Gb**  
**Ex tb III C T85/100/135/200 Db**  
**Ta = -65°C ≤ Ta ≤ 70°C/85°C/120°C/150°C**

Approved for issue on behalf of the IECEx Certification Body: **R A Craig**

Position: **Certification Support Officer**

Signature:  
(for printed version)

  
\_\_\_\_\_  
**2017-03-24**

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
**CSA Group**  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





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Certificate No.: IECEx SIR 12.0134

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Page 2 of 5

Manufacturer: **Rotork Instruments Italy srl**  
Via Portico 17  
24050  
Orio al Serio (BG)  
**Italy**

Additional Manufacturing location(s):

**Fairchild Industrial  
Products Co.**  
3920 West Point Blvd.  
Winston-Salem  
North Carolina 27103  
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0  
**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 7.0  
**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition: 2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

GB/SIR/ExTR13.0022/00  
GB/SIR/ExTR17.0051/00

GB/SIR/ExTR16.0158/00

GB/SIR/ExTR17.0018/00

#### Quality Assessment Report:

GB/ITS/QAR09.0004/01

GB/SIR/QAR09.0003/05



# IECEX Certificate of Conformity

Certificate No.: IECEx SIR 12.0134

Date of Issue: 2017-03-24

Issue No.: 2

Page 3 of 5

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Soldo Easy Switch and Junction Box enclosure has an internal volume of less than 100cm<sup>3</sup> and is made up from two parts, a bottom part (base) and a threaded lid which screw together, both are 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 Junction Box (JB 01) has an internally mounted terminal block and PCB which is housed in the base, with two threaded entries.

The Easy Switch (ES) contains an internally mounted terminal block, PCB with attaching micro-switches or reed switches which are housed within the base, with 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. The applicable ambient temperature ranges and corresponding Temperature Classes and Maximum Surface Temperatures for Dust are detailed in the table on EQUIPMENT (continued):

### SPECIFIC CONDITIONS OF USE: NO



# IECEX Certificate of Conformity

Certificate No.: IECEX SIR 12.0134

Date of Issue: 2017-03-24

Issue No.: 2

Page 4 of 5

## EQUIPMENT(continued):

Ambient temperature range	Temperature Class	Maximum Surface Temperatures for Dust
$-65^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$	T6	T85°C
$-65^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$	T5	T100°C
$-65^{\circ}\text{C} \leq T_a \leq 120^{\circ}\text{C}$	T4	T135°C
$-65^{\circ}\text{C} \leq T_a \leq 150^{\circ}\text{C}$	T3	T200°C

The ratings are:

Voltage: 125Vdc /250VAC max

Current: 5A max

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

### Conditions of manufacture

The Manufacturer shall comply with the following:

1. 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.



# IECEX Certificate of Conformity

Certificate No.: IECEx SIR 12.0134

Date of Issue: 2017-03-24

Issue No.: 2

Page 5 of 5

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

**Issue 1** – this Issue introduced the following changes:

1. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the documents previously listed, IEC 60079-1:2007 Ed 6 and IEC 60079-31:2008 Ed 1, were replaced by IEC 60079-1:2014 Ed 7 and IEC 60079-31:2013 Ed 2, the product markings were updated accordingly.
2. To recognise a change to the Junction Box model series number from (JB01) to (JB).
3. 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

**Issue 2** – this Issue introduced the following changes:

1. The Applicant and Manufacturers name and address were changed as follows:  
From: Soldo srl  
Via Monte Baldo 60  
25015  
Desenzano del Gards (BS)  
Italy  
To: Rotork Instruments Italy srl  
Via Portico 17  
24050  
Orio al Serio (BG)  
Italy
2. SOLDOTM was introduced to the front of the equipment name on page 1.
3. The introduction of an alternative manufacturing location at Fairchild Industrial Products Co., 3920 West Point Blvd., Winston-Salem, North Carolina 27103, USA was recognized.