



EU Type Examination Certificate CML 19ATEX1359X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **SOLDO™ SK and SQ Series Limit Switch Boxes**
- 3 Manufacturer **Rotork Instruments Italy srl**
- 4 Address **Via Portico 17
24050
Orio al Serio (BG)
Italy**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 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 12.

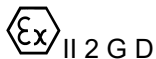
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db IIC T* Gb

Ex tb IIIC T*°C Db

Ta = -55°C to +*°C

**The ambient temperature classes and maximum surface temperature for dust depend upon the ambient temperature ranges. See Table in Section 11.*





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11 Description

The SOLDO™ 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 aluminium (SK) or 316 or 316L stainless steel (SQ) 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 ½" NPT) into the enclosure for cable entry.

The applicable ambient temperature ranges and corresponding Temperature Classes and Maximum Surface Temperatures for Dust are detailed in the table below:

Ambient Temp. Range	T Class	Maximum Surface Temp. for Dust
-55°C to +60°C	T6	T85°C
-55°C to +80°C	T5	T100°C
-55°C to +105°C	T4	T135°C

Rating:

Max. Voltage: 125 Vdc/250 Vac

Max. Current: 10 A

Max. Power: 10 W

Notes:

- Sira 12ATEX1098X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 12ATEX1098X.
- Where Sira 12ATEX1098X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

Variation 1

This variation introduced the following changes:

- i. Introduction of power dissipation calculation as supporting certification document.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	04 Oct 2019	R12654A/00	Initial issue
1	27 Mar 2024	R17518A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component are listed in the Annex.



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13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. The power dissipation inside the flameproof enclosure shall not exceed 10 W.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment is fitted with a non-conducting position indicator which could potentially generate an ignition-capable level of electrostatic charge under certain extreme conditions. Therefore, the equipment shall not be installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charge on the non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
- ii. The maximum temperature at the cable entry points may exceed 70°C. The user shall refer to the manufacturer's instructions document for guidance in respect of the selection of suitable cabling for the equipment.
- iii. Dust layers in excess of 50 mm shall not be allowed to form on the equipment.
- iv. The following have a minimum flamepath width (L) and maximum gap (i_c) other than that detailed in EN 60079-1 Table 3 and are detailed below:

Flamepath	Joint Width (L) mm	Max. Gap (i_c) mm
Cover shaft/Cover	26	0.097
Body Shaft/Body	26	0.097

Certificate Annex

Certificate Number CML 19ATEX1359X
Equipment SOLDO™ SK and SQ Series Limit Switch Boxes
Manufacturer Rotork Instruments Italy srl



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
SL-0202069-00	1 of 1	-	04 Oct 2019	Coperchio SQ certificazione ATEX IECEX UL
SL-0202070-00	1 of 1	-	04 Oct 2019	Coperchio SK certificazione ATEX IECEX UL
SL-0201093-00	1 of 1	-	04 Oct 2019	Corpo SQ certificazione ATEX IECEX UL
SL-0201096-00	1 of 1	-	04 Oct 2019	Corpo SK certificazione ATEX IECEX UL
SD-0201130-00	1 of 1	-	04 Oct 2019	Corpo SK certificazione ATEX IECEX
SD-0201132-00	1 of 1	-	04 Oct 2019	Corpo SQ certificazione ATEX IECEX
SD-0202091-00	1 of 1	-	04 Oct 2019	Cover SQ certificazione ATEX IECEX
SD-0202093-00	1 of 1	-	04 Oct 2019	Cover SQ certificazione ATEX IECEX
SL-0204138-00	1 of 1	-	04 Oct 2019	Stelo corpo SK-SQ certificazione ATEX
SL-0204140-00	1 of 1	-	04 Oct 2019	Stelo coperchio SK-SQ certificazione ATEX
SD-0204186-01	1 of 1	01	04 Oct 2019	Shaft body SK sintered bronze bush approval ATEX IECEX UL
SD-0204187-01	1 of 1	01	04 Oct 2019	Shaft cover SK sintered bronze bush approval ATEX IECEX UL
SD-0204184-01	1 of 1	01	04 Oct 2019	Shaft body SQ sintered bronze bush approval ATEX IECEX UL
SD-0204185-01	1 of 1	01	04 Oct 2019	Shaft cover SQ sintered bronze bush approval ATEX IECEX UL
SD-0213155-00	1 of 1	-	04 Oct 2019	Retaining ring UNI 7434-8
SD-0213152-00	1 of 1	-	04 Oct 2019	Retaining washer for shaft UNI 7435 D2
SL-0208046-00	1 of 1	-	04 Oct 2019	Vite coperchio SK-SQ certificazione ATEX
SD-0207019-00	1 of 1	-	04 Oct 2019	O-ring shaft SK-SQ ATEX IECEX UL
SL-0207020-00	1 of 1	-	04 Oct 2019	O-ring coperchio SK-SQ certificazione ATEX
SD-0211053-03	1 of 1	3-1	04 Oct 2019	SQ metal plate IP66-67 ATEX/IECEX certification
SD-0211054-03	1 of 1	3-1	04 Oct 2019	SQ metal plate IP66-68 10 m ATEX/IECEX certification
SD-0211055-03	1 of 1	3-1	04 Oct 2019	SK metal plate IP66-67 ATEX/IECEX certification

Certificate Annex

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Drawing No	Sheets	Rev	Approved date	Title
SD-0211056-03	1 of 1	3-1	04 Oct 2019	SK metal plate IP66-68 10 m ATEX/IECEX certification
SD-0225231-00	1 of 1	-	04 Oct 2019	Assieme SQ-SK certificazione ATEX IECEX UL
SD-0225228-00	1 of 1	-	04 Oct 2019	SK assembly
SD-0225232-00	1 of 1	-	04 Oct 2019	SQ assembly
SD-0225293-00	1 of 1	-	04 Oct 2019	SQ assembly certificazione ATEX IECEX
SD-0225295-00	1 of 1	-	04 Oct 2019	SK assembly certificazione ATEX IECEX
SL-0212199-00	1 of 1	-	04 Oct 2019	Tipico Circuito Stampato 5 Amp, Certificazione ATEX
SL-0223298-00	1 of 1	-	04 Oct 2019	Scheda C/Stampato 10 Amp, Certificazione ATEX
SD-0212239-00	1 of 1	-	04 Oct 2019	Circuito Stampato Destro DPDT SK
SD-0212232-00	1 of 1	-	04 Oct 2019	Circuito Stampato Verticale Sinistro DPDT SK
SD-0212230-00	1 of 1	-	04 Oct 2019	Circuito Stampato Sinistro DPDT SK
SD-0212240-00	1 of 1	-	04 Oct 2019	Circuito Stampato Verticale DPDT SK

Issue 1

None.