



[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU – Annex III**

[3] Certificate Number: **EPT 25 ATEX 5781 X** **issue 0**

[4] Equipment: **Soldo® Limit switch box series**
SW, SY

[5] Manufacturer: **ROTORK INSTRUMENTS ITALY S.R.L.**

[6] Address: **Via Portico 17 - 24050 Orio al Serio (BG) - Italy**

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th 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 of the Directive. The examination and test results are recorded in the confidential Report N°EPT.25.REL.03/2413139

[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the following harmonized standards:

EN IEC 60079-0:2018, EN 60079-11:2012

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

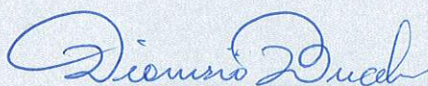
[12] The equipment shall include the sign  and the following strings:

II 1 G
Ex ia IIC T6...T4 Ga

II 2 D
Ex ib IIIC T42°C...T88°C Db

Place and date of issue:
(DD-MM-YYYY)

Torino, 23-06-2025



Dionisio Bucchieri
Directive Responsible



Paolo Trisoglio
Managing Director



PRD N° 119B
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CP-ATEX-MOD-26-00



This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.



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EU-TYPE EXAMINATION CERTIFICATE**[15] Equipment description**

The limit switch box series SW with body in stainless steel and SY with body in aluminium alloy material are electrical devices used to indicate the position, for example in valves and actuators, by means of electrical signal and visual indicator. These are mounted on actuator or manual valve with external lever or gear.

The cable entries are machined according to metric ISO 965-1 thread (M20x1.5 or M25x1.5), NPT thread ($\frac{1}{2}$ " or $\frac{3}{4}$ ") or alternatively can be plain.

The limit switch boxes can be configured by the manufacturer according one of the following main configurations:

Box with Ex certified inductive proximity switches, Ex certified transmitter and potentiometer.

Up to four proximity switches and one position transmitter mechanically connected to the internal camshaft and the potentiometer.

Configurations with a lower number of switches can be realized. The limit switches are mounted on circuit board or dedicated support plate and are interfaced to the camshaft; this component intervenes with induction effect of the switches changing their state.

When the equipment is marked according to the intrinsically safe requirements it can be powered up only by means of intrinsic safety barriers (associated apparatus).

In this case each switch has to be connected to an individual channel of intrinsic safety barrier.

Electrical parameters

The safety related electrical parameters correspond to those defined for each individual already certified Ex Equipment internally installed.

Warning label

- Do not open in a gas/dust explosive atmosphere
- Due to risk of static hazard the enclosure must be only cleaned with a damp cloth
- For safety instruction refers to IOM

Routine tests

None.

Relationships between ambient temperature range temperature limits and electrical parameters

Switch type	Type 1 – 34mW			Type 2 – 64mW			Type 3 – 169mW			Type 4 – 242mW		
Temp. Class (EPL Ga)	T6	T5	T4	T6	T5	T4	T6	T5	T4	T6	T5	T4
T _{amb} MAX [°C]	48	63	83	47	62	82	35	50	79	18	33	62
Max surface temp. [°C] (EPL Db)	53	68	88	52	67	87	42	57	86	N/A	N/A	N/A



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Notes:

Note 1 - The equipment temperature range is delimited by the worst component ambient temperature range.

Note 2 - When already certified proximity switches/transmitters are involved in the equipment, the marked temperature class is related to the maximum ambient temperature as described by the certificate of these devices. Furthermore, when more than one already certified proximity (with eventually one transmitter) are included, the marked ambient temperature values for each temperature class/maximum surface temperature and group of supply parameters are reduced to take into consideration the local ambient temperature inside the limit switch box.

Note 3 - Input parameters are based on components certificates.

[16] **Assessment Report n° EPT.25.REL.03/2413139**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition for a safe use**

- Potential electrostatic charging hazard, see instruction manual for details.
- SY enclosures are mainly made of aluminium material and then a proper installation has to be observed when placed in environment classified as Zone 0 to avoid an ignition hazard due to impact or friction.
- Each switch involved in the equipment has to be powered only by a single channel of certified intrinsic safety barrier.

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.

[19] **Descriptive documents**

The equipment object of this Certificate are described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Type of document	Document identification	Rev.	Date
Technical note	221124	00	2024-11-22
Drawing and scheme (Schedule drawing and related drawing)	A05	02	2025-05-30
Installation & Operating Manual	2096793	00	
Templates of labels	A13	01	2025-06-11
Wiring diagrams	A14	00	2024-12-31

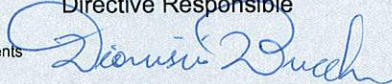


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[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **History**

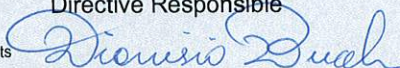
Issue	Description	Date
0	First Emission.	23-06-2025



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End of Certificate

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