

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)

Component intended for use with Equipment or Protective System in potentially explosive atmospheres (Directive 2014/34/EU)



2. EU type examination certificate Nr ITS16ATEX18397U

3. Component: Control Accessories - CA Series

4. Manufacturer: Rose Systemtechnik GmbH

5. Address: Erbeweg 13 - 15
32457 Porta Westfalica
Germany

6. This component and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

7. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the component has been found to comply with the essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. CE-JOB-NDA-20-000372-001 to 002 (Intertek UK Certification Report Reference No. G104285153) dated 22nd February 2021 and Intertek Report Nr. CE-JOB-DEL-16-000001-001 to 004 (Intertek UK Certification Report Reference No. G102406859) dated 4th February 2016.

8. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014 except in respect of those requirements referred to at item 18 of the Schedule.

9. If the sign U placed after the certificate number indicates that this certificate must not be mistaken relative to an equipment or protective system.

10. This EU-Type Examination Certificate relates only to the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

11. The marking of the component shall include the following:



II 2 G Ex db IIC Gb
II 2 D Ex tb IIIC Db IP 66

Certificate issue date

31 May 2021



Fabrizio Massei

Certification Officer

Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

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SCHEDULE

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12. DESCRIPTION OF COMPONENT

The components are a series of Control Accessories: Push Button Actuators - CA.PB.00000 Series, Rotary Actuators - CA.RA.00000 Series, LED Indicating lamp - CA.IL.00000 and Thermostat connector CA.TH.01 and CA.TH.02.

The Indicating lamp lenses are made of polycarbonate. Barrel of actuators and indicating lamp are made of anodized aluminium and alternate material stainless steel. The pins of actuators are made of stainless steel. The actuators and indicating lamps are having M22x1.5 6g male threads for fixing. The Thermostat connectors made of stainless steel or brass and are having M20x1.5 6g or M25x1.5 6g threads for fixing.

Moulded gasket of Silicone is provided for Ingress Protection of IP 66.

The Control Accessories can be varied in accordance with the requirements of Standards with respect to Group IIC, EPL Gb & Group IIIC, EPL Db for service temperature of “-60°C to +100°C”.

Pushbutton Actuator CA.PB.00000 Series:

CA	PB	00	0	0	0
		10- Shrouded Momentary	0-Standard	0-Green	0-Panel Mount
		20- Mushroom Momentary	1-Medium	1-Red	1-Base Mount
		21- Mushroom Stayput turn to release	2-Big	2-Yellow	
		22- Mushroom Stayput key to release		3-Blue	
		23- Mushroom Stayput pull to release		4-Black	
		80- 2 Position Selector		5-White	
		81- 2 Position Key Selector			
		82- 3 Position Selector			
		83- 3 Position Key Selector			
		XX-Any other variation			

Rotary Actuator CA.RA.00000 Series:

CA	RA	00	0	0	0
		00- MPCB operator	0-Standard	0-By Default	0-Panel Mount
		30- HRC MCB operator	1-Big		1-Base Mount
		40- Power Switch operator	2-Custom built		
		60- MCB operator			
		70- Switch operator			
		90- MCCB operator			
		XX- Any other variation			

LED Indicating lamp CA.IL.00000 series:

CA	IL	00	0	0	0
		50- 24V AC/DC	0-Standard	0-Green	0-Panel Mount
		51- 110 - 240VAC	1-Medium	1-Red	1-Base Mount
		52- 230VAC/DC	2-Big	2-Yellow	
		XX- Any other variation		3-Blue	
				5-White	
				6-Amber	



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Thermostat Connector

Type: CA.TH.01

Type: CA.TH.02

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
*Control Accessories - CA Series Sheet 1-3 of 3	Ex.PMI.CA.201	1	22.12.2020
*Instruction Manual for Control Accessories - CA Series	IM.CA.12.2020	-	2020

Note: An * is included before the title of documents that are new or revised.

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. LIMIT CONDITIONS FOR USE

Schedule of Limitations

1. The end use of control accessories shall be in accordance with the manufacturer's ratings and instructions.
2. The control accessories are suitable for service temperature range of "-60°C to +100°C".
3. The actuators and indicating lamps are suitable for fixing in certified metallic enclosure with M22x1.5 6H threaded holes of adequate thickness to ensure at least 5 full thread engagement and minimum 8mm depth of engagement.
4. The control accessories are suitable for fixing in certified metallic enclosure of Ex db IIA, IIB, IIB+H₂ or IIC of any volume whose routine tests are required to be performed at ≤20 bar. They are also suitable for fixing in certified metallic enclosure of Ex tb IIIA, IIIB or IIIC of any size.
5. Control Accessories shall be used with moulded gasket of Silicone to ensure ingress protection of IP66.
6. The LED Indicating lamps are suitable for low risk of mechanical danger i.e. 2 Joules.
7. User shall perform earth continuity check between exposed metal part of control accessory and enclosure on which it is fixed.
8. Control Accessories i.e. Indicating lamps, Push button and Rotary actuators may pose risk of electrostatic discharge for Group III applications, hence clean with damp cloth only.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. CE-JOB-NDA-20-000372-001 to 002 (Intertek UK Certification Report Reference No. G104285153) dated 22nd February 2021 and Intertek Report Nr. CE-JOB-DEL-16-000001-001 to 004 (Intertek UK Certification Report Reference No. G102406859) dated 4th February 2016.



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17. ROUTINE (FACTORY) TESTS

A routine overpressure test in accordance with EN 60079-1:2014 Clause 16 shall be carried out by the manufacturer on each LED Indicating lamp barrel at a pressure of 20 bar / 290 PSI for a period of at least 10 seconds and test results must be recorded. The overpressure test shall be considered satisfactory if no permanent deformation or damage invalidating the type of protection observed, the joints shall in no place have been permanently enlarged and no leakage through the walls of the barrel & joint between polycarbonate lens and barrel is observed.

Whereas other Control Accessories CA series i.e. Push-Button Actuators CA.PB.00000 Series, Rotary Actuators CA.RA.00000 Series and Thermostat connector CA.TH.01 and CA.TH.02 are exempted from routine tests.

18. DETAILS OF CERTIFICATE CHANGES

31 May 2021 (R.0):

This variation comprises the following changes to the component:

1. Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on February 2021 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
2. Revision as per EN IEC 60079-0:2018.
3. Changes in Type designation (Suffix "0" has been added).
4. Minimum service temperature updated to "-60°C" instead of "-20°C".
5. Indicating lamp polycarbonate lens thickness increased.
6. Addition of new control accessory - Thermostat connector CA.TH.01 and CA.TH.02.
7. Push button type Mushroom Stayput pull to release, MCCB operator knob replaced by two new types of knobs, Power switch and HRC MCB operator with new knob added as variation.
8. Update of the drawings to reflect above changes and previously certified sheet 3 deleted as manufacturing (Related) details were in schedule drawing.
9. Added the following in the Condition of safe use:
 - User shall perform earth continuity check between exposed metal part of control accessory and enclosure on which it is fixed.
 - Control Accessories i.e. Indicating lamps, Push button and Rotary actuators may pose risk of electrostatic discharge for Group III applications, hence clean with damp cloth only.