IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx INE 10.0010X**

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Certificate history:

Issue 4 (2020-12-18)
Issue 3 (2020-03-10)
Issue 2 (2017-12-19)
Issue 1 (2012-12-20)
Issue 0 (2010-10-27)

Status: **Current**

Issue No: 5

Date of Issue: 2026-03-03

Applicant: **RCN s.r.l.**
Regione Torame
Via Crevacuore
I-13011 BORGOSESIA (VC)
Italy

Equipment: **Ex Cable Glands types R… and B…**

Optional accessory:

Type of Protection: **db, eb, nR and tb**

Marking: Ex db I Mb / Ex eb I Mb
Ex db IIC Gb / Ex eb IIC Gb
Ex nR IIC Gc
Ex tb IIIC Db

IP66 or IP66/68

Approved for issue on behalf of the IECEx Certification Body: **Thierry HOUEIX**

Position: **Ex Certification Officer**

Signature: (for printed version)

Signé électroniquement
Digitally signed by
Thierry HOUEIX
Ex Certification Officer
Délégué Certification

Date: (for printed version) **2026-03-03**

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Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France

controlling risks for sustainable development

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Manufacturer: **RCN s.r.l.**
Regione Torame
Via Crevacuore
I-13011 BORGOSESIA (VC)
Italy

Manufacturing locations: **RCN s.r.l.**
Regione Torame
Via Crevacuore
I-13011 BORGOSESIA (VC)
Italy

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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:

FR/INE/ExTR10.0006/05

Quality Assessment Report:

FR/INE/QAR10.0003/14

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Cable entries type R… or B… are protected by flameproof enclosure, increased safety, restricted-breathing enclosure and dust protection. Furthermore, they also can be fitted on "Ex i", "Ex n", "Ex m", "Ex o", "Ex p" and "Ex q"

These cable entries are foreseen, in accordance with the type, for armoured cables or non-armoured cables.

In accordance to the type, the cable gland can be realised with a simple sealing ring or double sealing ring.

The cable glands type B.. are provided with a sealed bushing.

These cable entries gets the protection degrees IP66 or IP66/IP68 according to IEC 60 529 standard; the verification of the protection degree IPX8 corresponds to an immersion under 30 meters of water during 7 days.

The cable entries sizes 12S and 16S are intended to be used only with one specific elastomeric sealing ring.

SPECIFIC CONDITIONS OF USE: YES as shown below:
- The temperature of the enclosure, at the connection point of the cable entry must not exceed the following values :

Cable gland series	Service Temperature	Seal material	Resin type
R	-40°C to +100°C	EPDM	
R	-65°C to +220°C	Silicone	
B	-40°C to +100°C	EPDM	CW1302+HY1300
B	-65°C to +180°C	Silicone	CW1302+HY1300
B	-40°C to +100°C	EPDM	RCN EPR+EPH
B	-60°C to +150°C	Silicone	RCN EPR+EPH
B	-40°C to +100°C	EPDM	RCN SFR+SFH
B	-50°C to +149°C	Silicone	RCN SFR+SFH

- Due to the tensile test performed at 25% of the load, the clamping of the cables, for the cable glands size 12, 12s, 16, 16s, 63, 75, 90a and 90b must be realized outside of the enclosure, nearby to the equipment on which the cable glands are installed.

- In order to maintained the IPX8 the cable entry shall be fitted on equipment which satisfies an immersion test under 30 meters of water during 7 days.

- The types RNC, RAC, BNC, BAC, RNCS, RACS, BNCS and BACS, with female threaded exit, must be connected to a threaded device to avoid damaging the cable due to sharp edge.

The other conditions are stipulated in the instructions.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1:
Application of the following standards:
• IEC 60079-0: 2011
• IEC 60079-1: 2007
• IEC 60079-7: 2006
• IEC 60079-31: 2008

Issue 2 :
• Application of standards: IEC 60079-1:2014, IEC 60079-7:2015, IEC 60079-15:2010 and IEC 60079-31:2013.
• Updating of the manufacturer's documents
• Add a new type of resin for cable gland type B…

Issue 3 :
• Application of standards: IEC 60079-0:2017 and IEC 60079-7:2015+A1:2017.
• Updating of the manufacturer's documents
• Add a new type of resin for cable gland type B….

Issue 4 :
• Addition of cable gland series RNCS, RACS, BNCS, BACS.
• Application of IEC 60079-15:2017 standard.

Issue 5 :

- Application of the standard IEC 60079-31:2022
- Addition of Silicone rubber Size 12 and 16 range 2-4 mm
- Reduce the tightening torque for the size 12 and 16 (all rubber dimensions) and reduce the load to 25% for the tensile test for EPDM and Silicone rubbers of size 12 and 16
- Addition of new type F… with additional clamping devices

Annex:

IECEx INE 10.0010X-05_Annex.pdf

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Certificate No.: IECEx INE 10.0010X

Issue No.: 05

Annex: IECEx INE 10.0010X-05_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

- The temperature of the enclosure, at the connection point of the cable entry must not exceed the following values :

Cable gland series	Service Temperature	Seal material	Resin type
R	-40°C to +100°C	EPDM	
R	-65°C to +220°C	Silicone	
B	-40°C to +100°C	EPDM	CW1302+HY1300
B	-65°C to +180°C	Silicone	CW1302+HY1300
B	-40°C to +100°C	EPDM	RCN EPR+EPH
B	-60°C to +150°C	Silicone	RCN EPR+EPH
B	-40°C to +100°C	EPDM	RCN SFR+SFH
B	-50°C to +149°C	Silicone	RCN SFR+SFH

- These cable glands can be used with diameter cables 2 mm up to 78 mm.

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- RCN srl
- I – 13011 Borgosesia (VC)
- R… or B…(*)
- IECEx INE 10.0010X
- Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc
- Ex db I Mb / Ex eb I Mb
- Ex tb IIIC Db
- IP(**)

On the sealing ring :

- Indication of the minimum and maximum diameters.

On the small cable glands the marking can be reduced at:

- RCN
- R… or B…(*)
- IECEx INE 10.0010X
- Ex db/eb/tb/nR

(*) The type is completed by numbers and/or letters in accordance with the manufacturing variations.
(**) IP66 or IP66/IP68

ROUTINE EXAMINATIONS AND TESTS

None.