




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

Certificate No.:	IECEx INE 10.0010X	issue No.:	1	Certificate history: Issue No. 1 (2012-12-20) Issue No. 0 (2010-10-27)
Status:	Current			
Date of Issue:	2012-12-20	Page 1 of 4		
Applicant:	RCN s.r.l. Regiona Torame Via Crevacuore I-13011 BORGOSIESIA (VC) Italy			
Electrical Apparatus: Optional accessory:	Cable entries type R... and B...			
Type of Protection:	d, e and tb			
Marking:	Ex d I , Ex e I, Ex d IIC Gb, Ex e IIC Gb and 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)				
Date:	2012-12-20			



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:

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

INERIS



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

Additional Manufacturing location
(s):

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[FR/INE/ExTR10.0006/00](#)

[FR/INE/ExTR10.0006/01](#)

Quality Assessment Report:

[FR/INE/QAR10.0003/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Cable entries type R... or B... are protected by flameproof enclosure, increased safety and dust protection. 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 IP66/68 according to the standard IEC 60 529 ; 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 the specific elastomeric sealing ring.

CONDITIONS OF CERTIFICATION: YES as shown below:

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

For the type R... :

- 100°C with sealing ring in EPDM.
- 220°C with sealing ring in SILICONE

For the type B... :

- 100°C with sealing ring in EPDM.
- 155°C with sealing ring in SILICONE (*).
- 180°C with sealing ring in SILICONE (*).
- 220°C with sealing ring in SILICONE (*).

(*) The maximum temperature is in accordance with the type of resine used for the sealed bushing.

The minimum temperature for use is -40°C for sealing ring in EPDM and -65°C for sealing ring in silicone.

The user shall use cables with thermal stability in accordance with the temperature of the sealing ring.

The clamping of the cables, for the cable entries size 63, 75, 90a and 90b must be realized outside of the enclosure, nearby to the enclosure on which the cable glands are installed.

In order to maintened the IPX8 the cable entry shall be fitted on enclosure witch satisfies an immersion test under 30 meters of water during 7 days.



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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



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Annexe: IECEX INE 10.0010X_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

These cable glands can be used with diameter cables 3 mm up to 78 mm.

MARKING

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

- RCN
- I- 13011 Borgosesia (VC)
- R... or B... (*)
- IECEX INE 10.0010X
- (Year of construction)
- Ex d IIC Gb Ex d I Mb
- Ex e IIC Gb Ex e IMb
- 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 d/e/tb

(*) Type is completed by letters and numbers corresponding to the size and the manufacturing variations. Different types are defined in the descriptive documents.

(**) IP66 or IP66/68

ROUTINE EXAMINATIONS AND TESTS

None.