



(2) **Equipment and protective systems intended for use in potentially explosive atmospheres  
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(3) Number of the EC type examination certificate: **INERIS 12ATEX0089X**

(4) Equipment or protective system:

**ADAPTERS and CLOSING DEVICES TYPE A..., M..., N... and T...**

(5) Manufacturer: **RCN S.r.l**

(6) Address: **Via Crevacuore  
I - 13011 Borgosesia (VC)**

(7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

(8) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23<sup>rd</sup> March 1994, certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in report No 026804/13.

(9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 60079-0	: 2009	IEC 60079-0	: 2011
EN 60079-1	: 2007	IEC 60079-1	: 2007
EN 60079-7	: 2007	IEC 60079-7	: 2006
EN 60079-31	: 2009	IEC 60079-31	: 2008

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.
- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, these are not covered by this certificate.
- (12) The marking of the equipment or the protective system will have to contain:

 

Verneuil-en-Halatte, 2013.03.01



The Chief Executive Officer of INERIS,  
By delegation  
T. HOUEIX  
Ex Certification Officer



(13) **A N N E X**

(14) **EC TYPE EXAMINATION CERTIFICATE N° INERIS 12ATEX0089X**

(15) **DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM**

Metallic devices intended to be fitted on flameproof enclosures for group I, IIA, IIB and IIC, increased safety enclosures for group I and IIC and on enclosures for dust explosive atmospheres with “tb” protection.

This devices get the protection degrees IP66 or IP66/68 according to the EN/IEC 60 529 standard ;the verification of the protection degree IPX8 corresponds to an immersion under 30 meters of water during 7 days.

**PARAMETERS RELATING TO THE SAFETY**

**Size of threaded joints:**

- Conical thread : NPT : 1/4” NPT up to 3” NPT.  
Gk : 1/2” NPT up to Gk 3”.  
ISO10226 : R 1/4” up to R 3”
- Cylindrical thread : ISO 262-M : M12 x 1.5 mm up to M75 x 1.5 mm.  
M80 x 2 mm up to M 90 x 2 mm  
ISO 228-G : G1/4” up to G3”  
DIN 40430 : Pg7 up to Pg48

**MARKING**

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

RCN

I - 13011 Bogosesia (VC)

(\*)

INERIS 12ATEX0089X

 II 2 GD/IM2

Ex d IIC Gb Ex d I Mb

Ex e IIC Gb Ex e IMb

Ex tb IIIC Db

IP(\*\*)

**On the small devices the marking can be reduced at :**

RCN  
(\*  
INERIS 12ATEX0089X  
Ex d/e/tb

(\* One of the following type : A..., M..., N... or T....Type is completed by letters and numbers corresponding to the size and the manufacturing variation.

(\*\*) IP66 ou IP66/68

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

**ROUTINE EXAMINATIONS AND TESTS**

None.

**(16) DESCRIPTIVE DOCUMENTS**

The descriptive document quoted hereafter constitutes the technical documentation of the equipment, subject of this certificate.

Certification file TF RCN1200AR0 rev. 0

dated and signed of 2012.12.13

**(17) SPECIAL CONDITIONS FOR SAFE USEE**

The temperature of the enclosure, at the connection point of these devices must not exceed the following values:

- 100°C with EPDM or Nylon gasket.
- 220°C with SILICONE gasket.
- 400°C without gasket.

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

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

**(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the standards quoted in clause (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

## ADDITION

(3) INERIS 12ATEX0089X/01

(4) ADAPTERS and CLOSING DEVICES TYPE A..., M..., N... and T...

(5) Made by RCN S.r.l

(15) PURPOSE OF THE ADDITION

- Application of EN 60079-0: 2012 / A11: 2013 standard
- Update of the technical documentation.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is unchanged.

ROUTINE EXAMINATIONS AND TESTS

The routine examinations and tests are unchanged.

(16) DESCRIPTIVE DOCUMENTS

The descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- Technical File N° TF RCN1200AR0 Rev.1 (11 pages ) signed on 2015.06.22
- Safety Instructions N° IA RCN1200R1 (4 pages ) signed on 2015.06.22

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions for safe use are unchanged.

(18) **ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

The respect of the Essential Health and Safety Requirements is modified as follows:

- Conformity to the standards:
  - EN 60079-0 : 2012 / A11: 2013
  - EN 60079-1 : 2007
  - EN 60079-7 : 2007
  - EN 60079-31 : 2009
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2015.10.28

**Dominique Charpentier**  
**Certification Division**  
**Manager**



The Chief Executive Officer of INERIS  
By delegation

