

# ATTESTATION PRODUIT ATEX

## ATEX PRODUCT CERTIFICATION

LUMINAIRE – LIGHT FITTING

### LAMARCK (LFSe)

Attestation d'examen CE de type pour luminaire ATEX de type LFSe (LAMARCK)  
*EC type examination certificate for ATEX light fitting type LFSe (LAMARCK)*

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 Certificat émis par / Issued by : INERIS  
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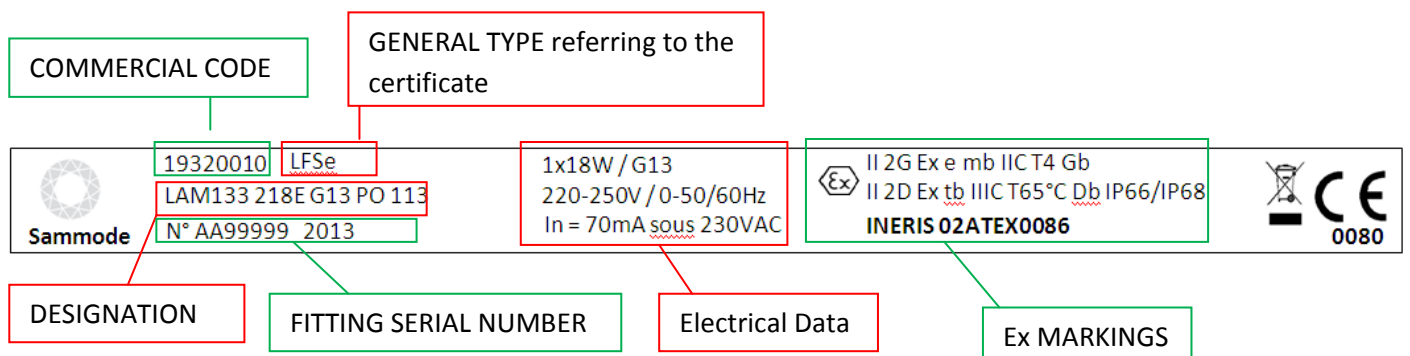
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Document n° : INERIS 03ATEX0086/04  
 Certificat émis par / Issued by : INERIS  
 Date : 2013/09/04

#### Marquage/Marking :

Chaque luminaire porte une étiquette faisant référence au certificat ATEX, par exemple :  
*Each fitting must have a label with reference to the ATEX certificate, as example :*





(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 02ATEX0086**

(4) Protective system or equipment:

**LIGHTING APPARATUS FOR FLUORESCENT LAMPS TYPE LFSe...**  
(The points are replaced by numbers and or number and letters corresponding to manufacturing variation)

(5) Manufacturer: **SAMMODE**

(6) Address: **125, rue du chemin Vert  
F75011 PARIS**

(7) This protection system or equipment 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) The 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 protection system or equipment fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protection systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report N°40551/02.

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

- conformity with:

EN 50 014	of June 1997 + A1 and A2
EN 50 017	of september 1998
EN 50 019	of July 2000
EN 50 028	of February 1987
EN 50 0281-1-1	of september 1998 + A1



- 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 protection system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.



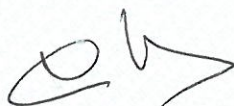
(11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, these are not covered by this certificate.

(12) The marking of the equipment or the protection system will have to contain:

 II 2 G  
and/or  II 2D

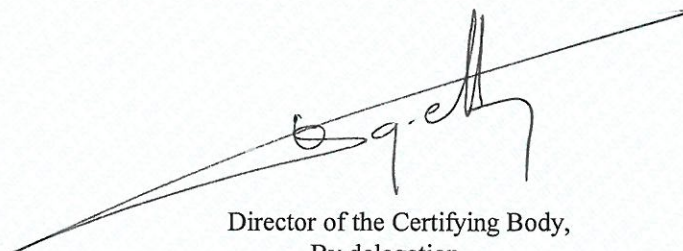
EEx eq IIT5 or EEx em II T4  
IP65 T65°C

Verneuil-en-Halatte, 2003 03 14



X. LEFEBVRE

Engineer at the Laboratory of Certification of Materials  
ATEX



Director of the Certifying Body,  
By delegation

B. PIQUETTE

Deputy manager of Certification





(13)

## ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 02ATEX0086

(15)

### DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM

The lighting apparatus protected by increased safety fitted with the internal component indicated on the descriptive documents.

This equipment presents degrees of protection IP65 according to European standard EN 60 529.

### PARAMETERS RELATING TO THE SAFETY

Maximum supply voltages : 254 V (AC)  
Frequencies : 50/60/0 Hz

This equipment is provided for the following lamps :


1 x 18 watts	2 x 18 watts
1 x 36 watts	2 x 36 watts
1 x 58 watts	2 x 58 watts

### MARKING


Marking must be readable and indelible; it must comprise the following indications:

A/ When lighting apparatus is fitted with ballast type PCX...E001 code EEx me II T5 certificate NEMKO EX95D225U

SAMMODE  
F- 75011 PARIS  
LFSe ... (1)  
INERIS 02ATEX0086  
(Serial number)  
(year of construction)

 II 2 G EEx em II T4

and/or

 II 2 D IP65 T65°C

(nominals voltage and current or type of lamp)

- DO NOT OPEN WHEN ENERGIZED
- DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

B/ When lighting apparatus is fitted with ballast type PCX...E101 code EEx ge II certificate PTB01ATEX1048U


SAMMODE  
F- 75011 PARIS  
LFSe ... (1)




INERIS 02ATEX0086

(Serial number)

(year of construction)

 II 2 G EEx eq II T5

and/or

 II 2 D IP65 T65°C

T.Amb : -20°C to 50°C

(nominals voltage and current or type of lamp)

- DO NOT OPEN WHEN ENERGIZED
- DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(1) The points are replaced by numbers or number and letters corresponding to manufacturing variation.

The whole marking can be carried out in the language of the country of use.

The protection apparatus or system must also carry the marking normally envisaged by the standards of construction which relate to it.

#### **ROUTINE EXAMINATIONS AND TESTS**

According to 7.1 of the EN 50 019 standard, each example of the increased safety part of the equipment must undergo a dielectric strength test, carried out in accordance with clause 6.

#### **(16) DESCRIPTIVE DOCUMENTS**

The technical report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

- Technical Notice n°415033 ind A (4 pages) on 2002.12.13  
signed on 2003.02.03
- Instruction n°415034 ind A (4 pages) on 2002.04.05  
signed on 2002.12.13
- Certification File n°415031 ind B (2 pages) on 2003.02.03  
signed on 2003.02.03

#### **(17) SPECIAL CONDITIONS FOR SAFE USE**

The special conditions are defined in the instructions.

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

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

- conformity to the European standards EN 50 014, 50 017, 50019, 50028 and EN 50 0281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.



## COMPLEMENT

INERIS 02ATEX0086/01

APPAREIL D'ÉCLAIRAGE A TUBE FLUORESCENT TYPE LFSe...

Construit par SAMMODE

### (15) - OBJET DU COMPLEMENT

Modification du corps transparent du luminaire.

Utilisation en variante de ballasts certifiés en tant que composant Ex.

### PARAMETRES RELATIFS A LA SECURITE

Les paramètres relatifs à la sécurité sont inchangés.

### MARQUAGE

Le marquage de l'attestation de base est modifié comme suit :

A) Lorsque l'appareil est équipé du ballast type PCX...E00  
code EEx me II T5 certificat NEMKO 03ATEX062U

SAMMODE

F- 75011 PARIS

LFSe ... (1)


INERIS 02ATEX0086

(numéro de série)

(Année de construction)

 II 2 G EEx em II T5

et/ou

 II 2 D IP6X T65°C

NE PAS OUVRIR SOUS TENSION

T.Amb : -20°C à 50°C

NE PAS OUVRIR SI UNE ATMOSPHERE EXPLOSIVE PEUT ETRE PRESENTE  
(tension et courant nominaux ou type de lampe)

(1) Les points sont remplacés par des lettres et des chiffres  
correspondant aux variantes d'exécution.

B) Lorsque l'appareil est équipé du ballast type HFX...E00  
code EEx me II T5 certificat NEMKO 03ATEX204U

SAMMODE

F- 75011 PARIS

LFSe ... (1)

INERIS 02ATEX0086

(numéro de série)

(Année de construction)



II 2 G EEx em II T5

et/ou



II 2 D IP6X T65°C

T.Amb : -20°C à 60°C

NE PAS OUVRIR SOUS TENSION

NE PAS OUVRIR SI UNE ATMOSPHERE EXPLOSIVE PEUT ETRE PRESENTE

(tension et courant nominaux ou type de lampe)

- (1) Les points sont remplacés par des lettres et des chiffres correspondant aux variantes d'exécution.

#### **EXAMENS ET ESSAIS INDIVIDUELS**

Les examens et essais individuels prévus par l'attestation de base sont inchangés.

#### **(16) - DOCUMENTS DESCRIPTIFS**

Le document, cité ci-après, constitue le dossier descriptif des modifications apportées au matériel et faisant l'objet du présent complément.

- Notice descriptive Complémentaire N°475 479 ind A datée et Signée du 16.09.2003

#### **(17) - CONDITIONS SPECIALES POUR UNE UTILISATION SURE**

Les conditions imposées par l'attestation de base sont complétées comme suit :

Pour la tenue aux chocs, le matériel ne pouvant supporter qu'un risque de danger mécanique faible, l'utilisateur devra assurer une protection complémentaire en cas de risque mécanique élevé.

Ces conditions sont indiquées dans les instructions.



(18) - EXIGENCES ESSENTIELLES DE SECURITE ET DE SANTE

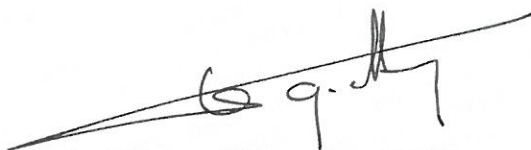
Le respect des Exigences Essentielles de Sécurité et de Santé indiqué dans l'attestation d'examen CE de type est inchangé.

Verneuil-en-Halatte, 2004 03 03



X. LEFEBVRE

Ingénieur au Laboratoire de Certification  
des Matériels ATEX



Le Directeur de l'Organisme Certificateur,  
Par délégation  
B. PIQUETTE  
Directeur Adjoint de la Certification





## ADDITION

(3) INERIS 02ATEX0086/02

(4) FLUORESCENT TUBE LIGHTING EQUIPMENT Type LFSe...

(5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

Mechanical modification : gluing.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety mentioned in the basic certificate are unchanged.

MARKING

The marking defined in the basic certificate is unchanged.

ROUTINE EXAMINATIONS AND TESTS

The routine examinations and tests stipulated by the basic certificate are unchanged.

(16) DESCRIPTIVE DOCUMENTS

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

- Complementary descriptive N° 416 076 ind A dated and signed on 2006.11.29.

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions defined in the basic certificate are unchanged.

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

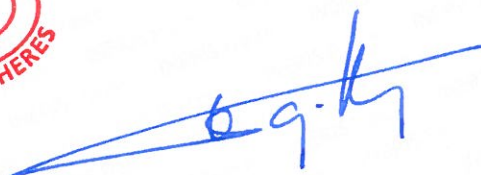
The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2006 12 04



X. LEFEBVRE

Project Manager at the ATEX  
Equipment Certification Laboratory



Director of the Certifying Body,  
By delegation  
B. PIQUETTE  
Deputy Manager of Certification



## ADDITION

- (3) INERIS 02ATEX0086/03
- (4) FLUORESCENT TUBE LIGHTING EQUIPMENT Type LFSe...
- (5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

Application of the standards EN 60079-0 : 2006, EN 60079-7 : 2003, EN 60079-18 : 2004, EN 60079-1 : 2004, EN 61241-0 : 2006 and EN 61241-1 : 2004.

Modification of the temperature classification from T5 to T4 according to § 14.5 of EN 60079-7 : 2003 standard.

This equipment can be fitted with on the following ballasts:

- ballast type HFX... E1003 or HFX... E1004 certified NEMKO 07ATEX1059U
- ballast type 6042/9...- certified PTB 03ATEX2140U

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are modified as follows:

Maximum supply voltages :

- 250 V or 127 V for the version fitted with the ballast type HFX... E1003 or HFX... E1004
- 240 V for the version fitted with the ballast type 6042/9

Frequencies : 50 / 60 / 0 Hz

This equipment can be provided for the following lamps:


1 x 18 watts	2 x 18 watts
1 x 36 watts	2 x 36 watts
1 x 58 watts	2 x 58 watts

MARKING

The marking is modified as follows:

SAMMODE  
F- 75011 PARIS  
LFSe ... (1)  
INERIS 02ATEX0086  
(Serial number)  
(Year of construction)  
Tamb : -20°C to +50°C  
  
(nominals voltage and current or type of lamp)

- For version II 2 G fitted with a ballast type HFX... E1003 or HFX... E1004 :

 II 2 G Ex e mb II T4


WARNINGS :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

- For version II 2 G fitted with a ballast type 6042/9...- :

 II 2 G Ex d e IIC T4


WARNINGS :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

- For version II 2 G and II 2 D fitted with a ballast type HFX... E1003 or HFX... E1004 :

 II 2 G Ex e mb II T4

and

 II 2 D Ex tD A21 IP65 T65°C

WARNINGS :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

- for version II 2 G and II 2 D fitted with a ballast type 6042/9...- :

 II 2 G Ex d e IIC T4

and

 II 2 D Ex tD A21 IP65 T65°C


WARNINGS :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

- For version II 2 D :

 II 2 D Ex tD A21 IP65 T65°C

WARNINGS :

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(1) The points are replaced by numbers or number and letters corresponding to manufacturing variation.

#### **ROUTINE EXAMINATIONS AND TESTS**

The routine examinations and tests are unchanged.



(16) DESCRIPTIVE DOCUMENTS

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

- Certification file N° 416 358 ind. A dated and signed on 2009 04 01

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions are unchanged.

(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 (15).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2009 08 25



Director of the Certifying Body,  
By delegation  
T. HOUeix  
Certification Officer  
Certification Division

## ADDITION

- (3) INERIS 02ATEX0086/04
- (4) FLUORESCENT TUBE LIGHTING EQUIPMENT TYPE LFSe...
- (5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

- Application of the following European standards:  
EN 60079-0 : 2009  
EN 60079-1 : 2007  
EN 60079-7 : 2007  
EN 60079-18 : 2009  
EN 60079-31 : 2009
- News materials of the equipment's body: Makrolon 1143 or Coextruded Polycarbonate/Methacrylate.

PARAMETERS RELATING TO THE SAFETY

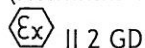
The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows:

- A- For versions fitted with a ballast type HFX... E1003 or HFX... E1004 :

SAMMODE  
F- 75011 PARIS  
LFSe... (1)  
INERIS 02ATEX0086  
(Serial number)  
(Year of construction)  
Tamb: -20°C to +50°C  
(Nominals voltage and current or type of lamp)



Ex e mb IIC T4 Gb  
Ex tb IIIC T65°C Db IP6X

WARNINGS:

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS  
DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT



B- For versions fitted with a ballast type 6042/9...:

SAMMODE

F- 75011 PARIS

LFSe... (1)


INERIS 02ATEX0086

(Serial number)

(Year of construction)

Tamb: -20°C to +50°C

(Nominals voltage and current or type of lamp)

 II 2 GD

Ex d e IIC T4 Gb

Ex tb IIIC T65°C Db IP6X

**WARNINGS:**

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

- (1) The points are replaced by numbers or number and letters corresponding to manufacturing variation.

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**

The routine examinations and tests are modified as follows:

- In accordance with clause 7.1 of the EN 60079-7 standard, a test of dielectric strength on each of the different circuits of the connection units, performed according to the relevant standards.

**(16) DESCRIPTIVE DOCUMENTS**

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

- Certification file n° 416 357 Rev.2.4      dated on 2013.05.20      and signed on 2013.06.25
- Instruction manual n° 415 034 Rev. F      dated on 2013.05      and signed on 2013.06.25

(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 completed as follows:

- Conformity to the standard indicated on page 1 paragraph (15).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2013.09.04

Dominique CHARPENTIER  
Certification Division  
Manager



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