

ATTESTATION PRODUIT ATEX

ATEX PRODUCT CERTIFICATION

LUMINAIRE – LIGHT FITTING

HOPKINS (LFSe NS)

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

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 Date : 2005/12/12

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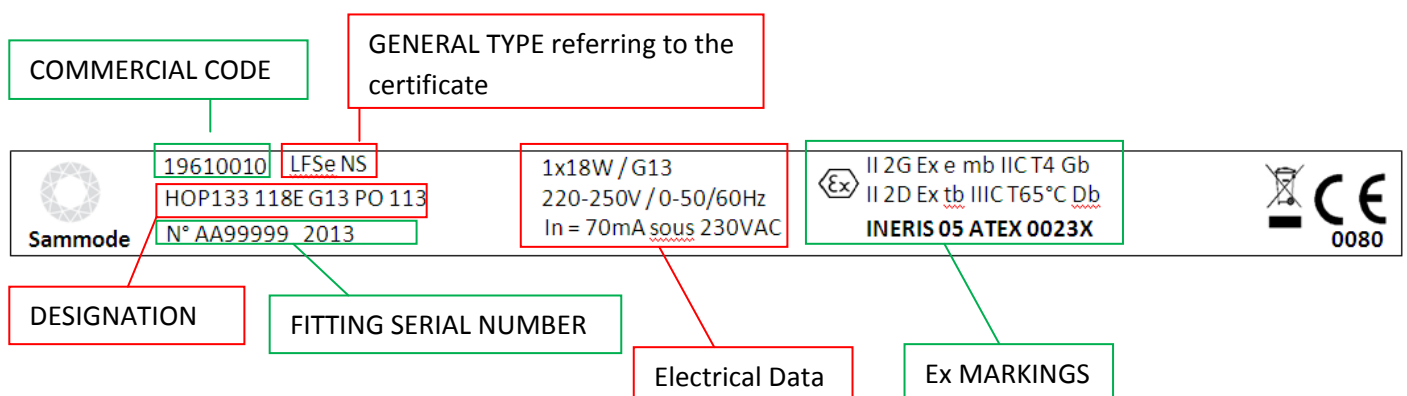
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Document n° : INERIS 05ATEX0023X/02
 Certificat émis par / Issued by : INERIS
 Date : 2013/09/04

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 05ATEX0023X**

- (4) Protective system or equipment:

LIGHTING APPARATUS FOR FLUORESCENT LAMPS TYPE LFSe NS...

(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
F - 75011 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 23rd 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°60802/05.

- (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 50 018	of November	2000 + A1
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:

or C_6H_6 II 2 G
and/or C_6H_6 II 2D

EEx eq II T5 or EEx em II T5

IP6X T65°C

Verneuil-en-Halatte, 2005 12 12

X. LEFEBVRE

Engineer at the Laboratory of Certification of Materials
ATEX

69.47

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

(13)

ANNEX

(14)

EC-TYPE EXAMINATION CERTIFICATE N° INERIS 05ATEX0023X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM

Lighting equipment protected by increased safety and intended to receive various types of lamps according to assembly defined by the descriptive documents; two versions of luminaries are envisaged: one with ballast, the other with unit normal/secours (UNS) equipped with a definite battery and a certified switch.

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 or 20 watts	2 x 18 watts or 20 watts
1 x 36 watts or 40 watts	2 x 36 watts or 40 watts
1 x 58 watts or 65 watts	2 x 58 watts or 65 watts

Battery :

Autorised type : 4VTDLC 4,8V NiCd Capacity max : 4,3 Ah

Switch :

Type 07_1544 object of the Ec-type examination certificate PTB99ATEX1011U.

MARKING

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

A/ When lighting apparatus is fitted with ballast PCX...E00 code EEx m II T5 or EEx me IIT5 - Ec-type examination certificate NEMKO 03ATEX062U or when lighting apparatus is fitted with ballast type HFX .58 E003 type HFXE004 code EEx me II T5 - Ec-type examination certificate NEMKO 03ATEX204U

SAMMODE


F- 75011 PARIS


LFSe NS ... (1)

INERIS 05ATEX0023X

(Serial number)

(year of construction)

 II 2 G EEx em II T5
and/or

 II 2 D IP6X T65°C
T.Amb : -20°C to 50°C

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(nominals voltage and current or type of lamp)

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

B/ When lighting apparatus is fitted with ballast PCX....E10 code EEx qe
II Ec-type examination certificate PTB01ATEX1048U

SAMMODE


F- 75011 PARIS


LFSe NS ... (1)

INERIS 05ATEX0023X

(Serial number)

(year of construction)

 II 2 G EEx eq II T5
and/or

 II 2 D IP6X T65°C

T.Amb :-20°C to 50°C

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(nominals voltage and current or type of lamp)

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

C/ When lighting apparatus is realised by UNS version object of the Ec-type examination certificate NEMKO03ATEX203U and associated with the defined battery and the connector type 07-1544 object of the Ec-type examination certificate PTB99ATEX1011U

SAMMODE


F- 75011 PARIS


LFSe NS ... (1)

INERIS 05ATEX0023X

(Serial number)

(year of construction)

 II 2 G EEx emd IIC T5
and/or

 II 2 D IP6X T65°C

T.Amb :-20°C to 40°C (nonobligatory mention)

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(nominals voltage and current or type of lamp)

- (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.

- Certification File n°415673 ind A (2 pages) on 2005.08.17 signed on 2005.08.17 (9 headings)

(17) SPECIAL CONDITIONS FOR SAFE USE

For the behaviour with the shocks, the apparatus which can support only one risk of weak mechanical danger, the user will have to ensure a complementary protection in the event of high mechanical risk.

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, EN 50 017, EN 50018, EN 50 019, EN 50 028 and EN 50 281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.

ADDITION

(3) INERIS 05ATEX0023/01

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

(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 60079-14.

This equipment can be fitted with the following equipment and components:

- ballast type HFX... E1003 or HFX... E1004 certified NEMKO 07ATEX1059U
- ballast type 6042/9...- certified PTB 03ATEX2140U
- emergency inverter and control gear type HFXE... certified NEMKO 09ATEX1103U and equipped with defined battery and certified Ex d IIC switch type.

Degree of protection IP65 between flanges and body is ensured by defined gaskets. It can be also realized by a gasket arranged between the body and flange on an extremity and by sticking of the body with flange on the other extremity.

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
- 250 V or 127 V or 120 V for the version fitted with the emergency inverter and control gear

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 NS... (1)
INERIS 05ATEX0023
(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 the emergency inverter and control gear type HFXE... and switch type 07-1544 -.../... or 07-295...-... 30/... :

 II 2 G Ex d e mb 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 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 the emergency inverter and control gear type HFXE... and switch type 07-1544 -.../... or 07-295...-... 30/... :

 II 2 G Ex d e mb IIC T4


and

 II 2 D Ex tD A21 IP6X 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 HFX... E1003 or HFX... E1004 :

 II 2 G Ex e mb II T4

and

 II 2 D Ex tD A21 IP6X 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 IP6X 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 IP6X 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 modified as follow :

- In accordance with clause 7.2 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 document quoted hereafter constitutes the technical documentation describing the modification of the equipment, subject of this present addition.

- Certification file N°415 674 ind. B dated and signed on 2009 07 09

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions are modified as follow :

For version fitted with a glass DURAN : the apparatus can support only a weak mechanical risk, the user will have to ensure a complementary protection in the event of high mechanical risk.

(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 09 15



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

ADDITION

(3) INERIS 05ATEX0023X/02

(4) FLUORESCENT TUBE LIGHTING EQUIPMENT TYPE LFSe NS...

(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 the emergency inverter and control gear type HFXE... and switch type 07-1544 -.../... or 07-295...-... 30/...:

SAMMODE

F - 75011 PARIS

LFSe NS... (1)

INERIS 05ATEX0023X

(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 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 HFX... E1003 or HFX... E1004 :

SAMMODE

F- 75011 PARIS

LFSe NS... (1)


INERIS 05ATEX0023X

(Serial number)

(Year of construction)

Tamb: -20°C to +50°C

(Nominals voltage and current or type of lamp)

 II 2 GD

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

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

SAMMODE

F- 75011 PARIS

LFSe NS... (1)


INERIS 05ATEX0023X

(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° 415 674 Rev.3.4 dated on 2013.05.16 and signed on 2013 06 25
- Instruction manual n° 415 675 Rev.G 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.HOUEIX
Ex Certification Officer