

ATTESTATION PRODUIT ATEX

ATEX PRODUCT CERTIFICATION

LUMINAIRE – LIGHT FITTING

DAVY (LFS n...)

Attestation d'examen CE de type pour luminaire ATEX de type LFS n (DAVY)
EC type examination certificate for ATEX light fitting type LFS n (DAVY)

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 Date : 2003/06/14

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 Certificat émis par / *issued by* : INERIS
 Date : 2006/12/04

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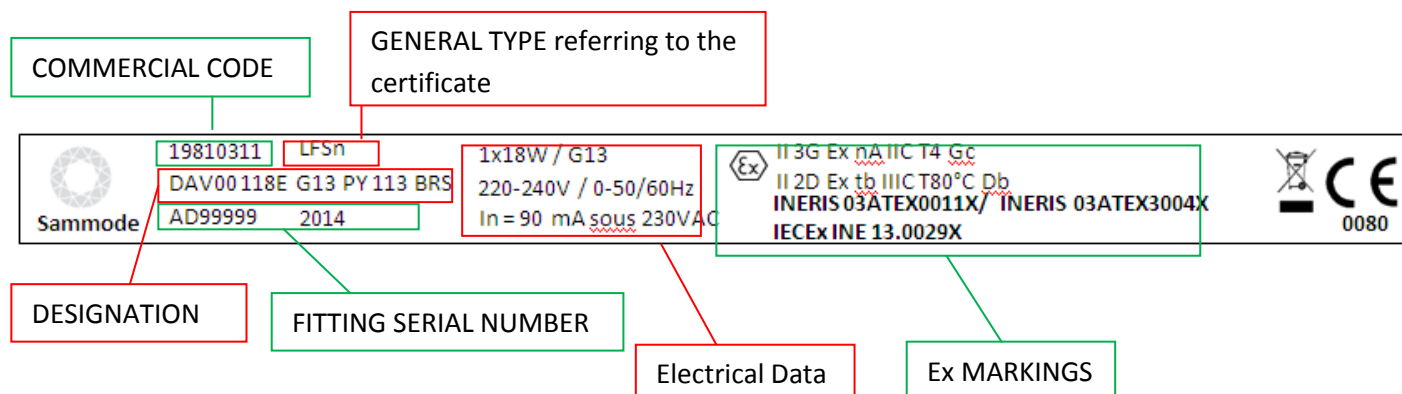
Document n° : INERIS 03ATEX3004/02
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 Date : 2009/11/23

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Document n° : INERIS 03ATEX3004X/03
 Certificat émis par / *issued by* : INERIS
 Date : 2014/01/31

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 03ATEX0011**

- (4) Protective system or equipment:

LIGHTING APPARATUS FOR FLUORESCENT LAMPS TYPE LFSn...

(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°52053/03.

- (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 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 2D

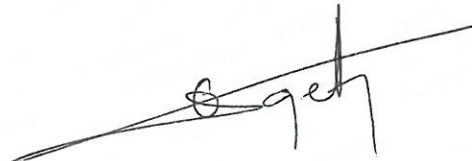
IP6X T65°C or T75°C

Verneuil-en-Halatte, 2003 06 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 03ATEX0011

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM

Lighting apparatus fitted with the internal component indicated on the descriptive documents.

This equipment presents degrees of protection IP6X 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 with HELVAR ballast :

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:

SAMMODE
F- 75011 PARIS
LFSn ... (1)
INERIS 03ATEX0011
(Serial number)
(year of construction)

⊕ II 2 D IP6X T65°C

⊕ II 2 D IP6X T75°C with Tamb : -20°C/+50°C

- 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

None.

(16) DESCRIPTIVE DOCUMENTS

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

- Certification File n°415350 ind A (2 pages 6 items) on 2003.06.12 signed on 2003.06.12

(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 and EN 50 0281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.

ADDITION

- (3) INERIS 03ATEX0011/01
- (4) FLUORESCENT TUBE LIGHTING EQUIPMENT Type LFSn...
- (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**

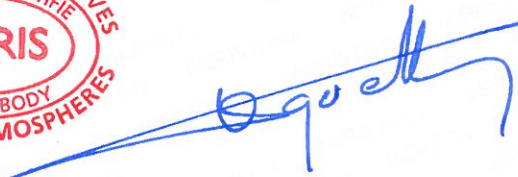
The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

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 03ATEX0011/02
- (4) FLUORESCENT TUBE LIGHTING EQUIPMENT TYPE LFSn...
- (5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

Application of the standards EN 61241-0:2006 and EN 61241-1:2004.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follow :

SAMMODE

F- 75011 PARIS

LFSn... (1)


INERIS 03ATEX0011

(Serial number)

(Year of construction)

(nominals voltage and current or type of lamp)

 II 2 D Ex tD A21 IP6X T65°C

 II 2 D Ex tD A21 IP6X T75°C with Tamb :-20°C/+50°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

None.

(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° 416 457 ind. A dated and signed on 2009 08 21

(17) SPECIAL CONDITIONS FOR SAFE USE

None.


(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 11 09




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

ADDITION

(3) INERIS 03ATEX0011X/03

(4) FLUORESCENT TUBE LIGHTING EQUIPMENT TYPE LFSn...

(5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

1. Updating to the standards:
EN 60079-0:2009/2012 EN 60079-31:2009
2. Changing the polycarbonate of the body by two new materials: Makrolon 1143 or coextruded polycarbonate/methacrylate (POME);
3. Addition of a new lighting apparatus model: LFSn - EINSTEIN SILO.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows:

a) Lighting apparatus type LFSn DAVY, KEPLER and EINSTEIN SILO:

SAMMODE

F- 75011 PARIS


LFSn... (1)

INERIS 03ATEX0011X

(Serial number)

(Year of construction)

(Nominals voltage and current or type of lamp)

 II 2 D

Ex tb IIIC T80°C Db IP64

Tamb:-20°C to +50°C

WARNINGS:

DO NOT OPEN WHEN ENERGIZED

POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS

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

Title:	Drawing No.:	Rev. Level:	Date:
Drawing of KEPLER	115336	B	2013.06.12
Drawing of DAVY	116671	A	2013.06.17
Drawing of EINSTEIN SILO	114497	B	2013.06.13
User guide of KEPLER		F	2013.05.22
User guide of EINSTEIN SILO		F	2013.05.22
User guide of DAVY		A	2013.05.22
Bill of material of KEPLER			2013.04.23
Bill of material of EINSTEIN SILO			2013.04.23
Bill of material of DAVY			2013.04.23
Technical folder			2013.06.25

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions for safe use are completed as follows:

POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS

(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, 2014.01.31




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



- (2) **Category III Equipment Intended for use in Potentially explosive atmospheres
Directive 94/9/EC**

(1) **TYPE EXAMINATION CERTIFICATE**

- (3) Type Examination Certificate number : **INERIS 03ATEX3004**



- (4) Equipment :

LIGHTING APPARATUS FOR FLUORESCENT LAMPS TYPE LFSn...

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

- (5) Applicant : **SAMMODE**
- (6) Address : 125, rue du chemin vert
F- 75011 PARIS
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) INERIS certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of category III component intended for use in potentially explosive atmospheres, given in Annex II to the directive.
- (9) The examination and test results are recorded in confidential report N°: 46751/03.
- (10) Compliance with the Essential Health and Safety Requirements has been assessed by reference to:
- EN 50 021 april 1999
EN 50 281-1-1 september 1998 + A1
- (11) If the sign « X » placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use, specified in the schedule to this certificate.

- (12) This Type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive may apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (13) The marking of the equipment shall include the following :

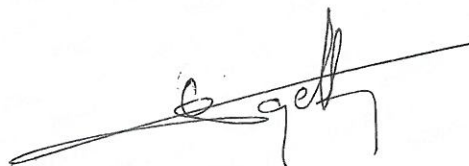
	 II 3 G	EEx nA II T6 or T5 or nAR II T6 or II T5
or	 II 3 D	IP6X T65°C or T75°C

Verneuil-en-Halatte, 2003 06 14



X. LEFEBVRE

Engineer at the Laboratory of Certification of
Materials ATEX



The Director of the Organisation Certified,
By delegation
B. PIQUETTE
Deputy manager of Certification



(A1)

SCHEDULE

(A2)

TYPE EXAMINATION CERTIFICATE N° INERIS 03ATEX3004

(A3) DESCRIPTION OF COMPONENT

Lighting apparatus fitted with the internal component indicated on the descriptive documents.

This equipment presents degrees of protection IP6X 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 with HELVAR ballast :


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:


SAMMODE
F- 75011 PARIS
LFSn ... (1)
INERIS 03ATEX3004
(Serial number)
(year of construction)


- For a range of ambient temperatures between -20°C and 40°C :

-  II 3 G EEx nA II T6 or EEx nAR II T6

- or  II 3 D IP6X T65°C

- For a range of ambient temperatures between -20°C and 50°C :

-  II 3 G EEx nA II T5 or EEx nAR II T5

- or  II 3 D IP6X T75°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 electrical system shall also bear the marking normally required by the standards for the construction of the electrical equipment concerned.

ROUTINE TEST

Each sample of the equipment defined above protected by restricted-breathing shall have successfully undergone a routine, before delivery in conformity with 27.2 of EN50021 :1999.

(A4) DESCRIPTIVE DOCUMENTS

The document quoted below, submitted and signed by the petitioner, form the descriptive file of the apparatus which is dealing with the present certificate.

- Certification File n°415350 ind A (2 pages 6 items) on 2003.06.12 signed on 2003.06.12

(A5) SPECIAL CONDITIONS FOR SAFE USE

the special conditions for safe use are indicated in instructions.

(A6) ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

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

- conformity to EN 50 021 and EN 50 281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.

ADDITION

(3) **INERIS 03ATEX3004/01**

(4) **FLUORESCENT TUBE LIGHTING EQUIPMENT Type LFSn...**

(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 03ATEX3004/02

(4) FLUORESCENT TUBE LIGHTING EQUIPMENT TYPE LFSn...

(5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

Application of the standards EN 60079-0:2006, EN 60079-15:2005, EN61241-0 :2006 and EN 61241-1 :2004.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follow :

SAMMODE

F- 75011 PARIS

LFSn... (1)


INERIS 03ATEX3004

(Serial number)

(Year of construction)

 II 3 D Ex tD A22 IP6X T65°C

or

 II 3 D Ex tD A22 IP6X T75°C with Tamb :-20°C/+50°C

or

 II 3 G Ex nA II T4

or

 II 3 G Ex nAR II T4

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 :

- Each apparatus defined above has to have successfully passed, before delivery a test of dielectric strength in accordance with clause 34.2.1 or 34.2.2 of the EN 60079-15 standard.

(16) DESCRIPTIVE DOCUMENTS

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

- Certification file N° 416 457 ind. A dated and signed on 2009 08 21

(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 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, 2009.11.23



A handwritten signature in blue ink, appearing to read "T. Houeix".

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

ADDITION

- (3) INERIS 03ATEX3004X/03
- (4) FLUORESCENT TUBE LIGHTING EQUIPMENT TYPE LFSn...
- (5) Made by SAMMODE

(15) PURPOSE OF THE ADDITION

1. Updating to the standards:
EN 60079-0:2009/2012 EN 60079-15:2010
2. Changing the polycarbonate of the body by two new materials: Makrolon 1143 or coextruded polycarbonate/methacrylate (POME);
3. Addition of a new lighting apparatus model: LFSn - EINSTEIN SILO.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows:

a) Lighting apparatus type LFSn DAVY, KEPLER and EINSTEIN SILO:

SAMMODE

F- 75011 PARIS

LFSn... (1)

INERIS 03ATEX3004X

(Serial number)

(Year of construction)

(nominals voltage and current or type of lamp)

Ex II 3 G

Ex nA IIC T4 Gc IP64

Tamb:-20°C to +50°C

WARNINGS:

DO NOT OPEN WHEN ENERGIZED

POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS

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

Title:	Drawing No.:	Rev. Level:	Date:
Drawing of KEPLER	115336	B	2013.06.12
Drawing of DAVY	116671	A	2013.06.17
Drawing of EINSTEIN SILO	114497	B	2013.06.13
User guide of KEPLER		F	2013.05.22
User guide of EINSTEIN SILO		F	2013.05.22
User guide of DAVY		A	2013.05.22
Bill of material of KEPLER			2013.04.23
Bill of material of EINSTEIN SILO			2013.04.23
Bill of material of DAVY			2013.04.23
Technical folder			2013.06.25

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions for safe use are completed as follows:

POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS.

(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, 2014.01.31



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