



- (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 11ATEX0052X**

- (4) Equipment or protective system:

**FLAMEPROOF LIGHTING FIXTURES OR AUTONOMOUS  
SAFETY BLOCKS TYPE XFP... or XEP... or XEL...AI or XEL...SI**

- (5) Manufacturer: **D.T.S.**

- (6) Address: **Z.I Parc d'activités de la Gare  
F-77831 OZOIR LA FERRIERE Cedex**

- (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 025328/11.


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

- conformity with:

EN 60079-0 : 2009  
EN 60079-1 : 2007  
EN 60079-7 : 2007  
EN 61241-0 : 2006  
EN 61241-1 : 2004

- 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:

 II 2 GD

Verneuil-en-Halatte, 2011.11.24



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



(13)

## A N N E X

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 11ATEX0052X

(15)

### DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

Tubular lighting fixtures or autonomous safety blocks protected by flameproof enclosure “Ex d” fitted with increased safety terminal box “Ex e” and intended to contain the lamps defined here after.

The tubes could be made in glass or polycarbonate.

The equipment owns the protection degrees IP66 according to the standard EN 60529

### PARAMETERS RELATING TO THE SAFETY

Supply voltage:

- Lighting fixtures type XFP... : 100V, 110V, 127V, 220V, 230V, 240V (AC) 50/60 Hz or 110V (CC)
- Lighting fixtures type XEP... : 100V, 110V, 127V, 220V, 230V, 240V (AC) - 50/60 Hz
- Autonomous safety blocks XEL...AI or XEL...SI with battery : 110V, 230V (AC) - 50/60 Hz or 48V to 110V (CC)

Table 1: Autonomous security block type XEL

Type of lighting fixture	Power of the lamp	Gas group	Temperature class (gas)/ Dust T°	Delay before opening	
XEL	80AI or 80SI	1x6W	IIC	T6 /T80°C	NA
	300AI or 300SI	1x8W	IIC	T6 /T80°C	NA

Table 2: Lighting fixtures type XFP..., XEP...

Type of lighting fixture	Power of the lamp	Gas group		Temperature class (gas) / Dust T°		Delay before opening (min)		
		Glass tube	PC tube	without opening delay	with opening delay	T.amb < 40°C	T.amb < 55°C	
XFP	120	1x18/20W	IIC	IIC	T3/T195°C	T6/ T80°C	25	55
	140	1x36/40W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
	136	1x36W PL	IIC	IIC	T3/T195°C	T6/ T80°C	45	55
	155	1x55W PL	IIC	IIC	T3/T195°C	T6/ T80°C or T5/T95°C (*)	45	55
	165	1x58/65W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
	220	2x18/20W	IIC	IIC	T3/T195°C	T6/ T80°C	25	55
	236	2x36 W PL	IIC	IIC	T3/T195°C	T6/ T80°C	45	55
	240	2x36/40W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
	255	2x55W PL	IIC	IIC	T3/T195°C	T6/ T80°C or T5/T95°C (*)	45	55
	265	2x58/65W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
XEP	300/8 or 300/8 N	1x8W	IIC	IIC	T4/T130C	T6/ T80°C	20	35
	300/28	2x8W	IIC	IIC	T4 T130C	T6/ T80°C	20	35
	300/11	1x7/9/11W PL	IIC	IIC	T4 T130C	T6/ T80°C	20	35
	120	1x18 W PL	IIC	IIC	T4 T130C	T6/ T80°C	20	35
	220	2x18 W PL	IIC	IIC	T3/T195°C	T6/ T80°C or T5/T95°C (*)	30	50

(\*) For these versions the lamps should be at the bottom. The temperature class is T6 under a voltage from 100V to 230V and T5 under 240V.

When electronic ballast are used the delay before opening is 25 min (except for lamp 55W PL-230V)

## MARKING

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

A) For autonomous safety blocks type XEL...

D.T.S.


F-77831 OZOIR LA FERRIERE Cedex

XEL...(\*)

INERIS 11ATEX0052X

(Serial number)

(Year of construction)

 II 2 GD

Ex d e IIC T6 Gb

Ex tD A21 IP6X T80°C

T. amb : if -20°C to 55°C

On the lamp compartment the symbol "d"

On the cover of the terminal box the symbol "e"

(Rated voltage and rated current and/or rated power)

Cable entries: see instructions

**WARNINGS:** DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE IS PRESENT

For the versions with polycarbonate tube :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

(\*) The dots are replaced by a codification according to the manufacturing variations. The different types are indicated in the descriptive documents

B) For Lighting fixtures type XFP/XEP/XEL...

D.T.S.


F-77831 OZOIR LA FERRIERE Cedex

XFP... or XEP... or XEL...(\*)

INERIS 11ATEX0052X

(Serial number)

(Year of construction)

 II 2 GD

Ex d e II(\*\*) T(\*\*) Gb

Ex tD A21 IP6X T(\*\*)

T. amb : If -20°C to 55°C

On the lamp compartment the symbol "d"

On the cover of the terminal box the symbol "e"

(Rated voltage and rated current and/or rated power)

Cable entries : see instructions

**WARNINGS:** DO NOT OPEN WHEN ENERGIZED  
AFTER DE-ENERGEZING, WAIT (\*\*) MINUTES BEFORE OPENING



For the versions with polycarbonate tube :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

(\*) The dots are replaced by a codification according to the manufacturing variations. The different types are indicated in the descriptive documents

(\*\*) See table 2

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**

For the lamp compartment:

In accordance with clause 16.1 of the EN 60079-1 standard, each apparatus defined above has to have successfully passed before delivery an overpressure test of a period comprised between 10 and 60 seconds under:

Type of enclosure	Overpressure value
XFP140V, XFP240V	7 bars
XFP165V, XFP265V	8.1 bars
XFP120V, XFP136V, XFP155V, XFP220V, XFP236V, XFP255V	9 bars
XFP120, XFP136, XFP155, XFP220, XFP236, XFP255	11.4 bars
XEL, XEP	11.5 bars
XFP140, XFP240	12 bars
XFP165, XFP265	13.2 bars

For the terminal box:

In accordance with clause 7.1 of the EN 60079-7 standard, each apparatus defined above has to have successfully passed; before delivery a dielectric test strength on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall applied during one minute.

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

The descriptive documents quoted hereafter constitute the technical documentation of the equipment, subject of this certificate.

- Technical file n° 11.10.07.129 rev 0 (13 rubrics)                      dated and signed on 2011.11.09
- Instruction and maintenance notice NT 12 rev 3 (3 pages)            dated and signed on 2011.11.18
- Instruction and maintenance notice NT 06 rev 7 (15 pages)            dated and signed on 2011.11.18

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

- The width of flameproof joints is more than the values specified in tables 3 and 4 of the standard EN 60079-1.
- During the installation, the user will take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk
- For the risk from electrostatic discharge, the user will have to read the instructions.

The other conditions are stipulated in the 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 (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

## ADDITION

(3)

**INERIS 11ATEX0052X/01**

(4)

**FLAMEPROOF LIGHTING FIXTURES OR AUTONOMOUS  
SAFETY BLOCKS TYPE XFP... ou XLP...ou XEP... ou XEL...AI ou XEL...SI...**

(5)

**Made by D.T.S**

(15) **PURPOSE OF THE ADDITION**

- Application of the standard EN 60079-31:2009
- Incorporation of the following type LED variations:
  - o XFP120-21060 or XLP12 or XLP12V including one LED module
  - o XFP140-21060 or XLP21 or XLP21V including two LED modules
  - o XFP220-21060 or XLP19 or XLP19V including one LED module
  - o XFP240-21060 or XLP38 or XLP38V including two LED modules

**PARAMETERS RELATING TO THE SAFETY**

The parameters relating to the safety are modified as follows:

Supply voltage:

- Lighting fixtures LED type XFP... /XLP... :
  - o 100 V to 240 V (AC) 50/60 Hz
- Lighting fixtures type XFP... :
  - o 100 V, 110 V, 127 V, 220 V, 230 V, 240 V (AC) 50/60 Hz or 110 V (CC)
- Lighting fixtures type XEP... :
  - o 100 V, 110 V, 127 V, 220 V, 230 V, 240 V (AC) - 50/60 Hz
- Autonomous safety blocks XEL...AI or XEL...SI with battery :
  - o 110 V, 230 V (AC) - 50/60 Hz or 48 V at 110 (CC)

**Table 1: Autonomous security block type XEL**

Type of lighting fixture	Power of the lamp	Gas group	Temperature class (gas)/ Dust T°	Delay before opening	
XEL	80AI or 80SI	1x6 W	IIC	T6 /T80°C	NA
	300AI or 300SI	1x8 W	IIC	T6 /T80°C	NA



Table 2: Lighting fixtures type XFP..., XEP...

Type of lighting fixture	Power of the lamp	Gas group		Temperature class (gas) / Dust T°		Delay before opening (min)		
		Glass tube	PC tube	without opening delay	with opening delay	T.amb < 40°C	T.amb < 55°C	
XFP	120	1x18/20 W	IIC	IIC	T3/T195°C	T6/ T80°C	25	55
	140	1x36/40 W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
	136	1x36W PL	IIC	IIC	T3/T195°C	T6/ T80°C	45	55
	155	1x55W PL	IIC	IIC	T3/T195°C	T6/ T80°C or T5/T95°C (*)	45	55
	165	1x58/65 W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
	220	2x18/20 W	IIC	IIC	T3/T195°C	T6/ T80°C	25	55
	236	2x36 W PL	IIC	IIC	T3/T195°C	T6/ T80°C	45	55
	240	2x36/40 W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
	255	2x55W PL	IIC	IIC	T3/T195°C	T6/ T80°C or T5/T95°C (*)	45	55
	265	2x58/65 W	IIB	IIC	T3/T195°C	T6/ T80°C	45	55
XEP	300/8 or 300/8 N	1x8 W	IIC	IIC	T4/T130°C	T6/ T80°C	20	35
	300/28	2x8 W	IIC	IIC	T4/T130°C	T6/ T80°C	20	35
	300/11	1x7/9/11W PL	IIC	IIC	T4/T130°C	T6/ T80°C	20	35
	120	1x18 W PL	IIC	IIC	T4/T130°C	T6/ T80°C	20	35
	220	2x18 W PL	IIC	IIC	T3/T195°C	T6/ T80°C or T5/T95°C (*)	30	50

(\*) For these versions the lamps should be at the bottom. The temperature class is T6 under a voltage from 100 V to 230 V and T5 under 240 V.

When electronic ballast are used the delay before opening is 25 min (except for lamp 55W PL-230 V)

The index V is used for lighting fixtures with glass tube.

The index N for level application, is used when the gear tray is equipped with deflector for thin luminous beam

Table 3: Lighting fixtures type XFP..., XLP...

Type of lighting fixture	Number of module LED. (all module rated power)	Gas group	Temperature class for gas	Temperature class for dust	Delay before opening (min)	
					T.amb < 40°C	T.amb < 55°C
XLP12 & XLP12V & (XFP120-21060)	1 (11.5 W)	IIC	T6	T70°C	6	15
XLP21 & (XFP220-21060)	1 (20.5 W)	IIC	T6	T70°C	6	15
XLP19 & XLP19V & (XFP140-21060)	2 (19 W)	IIC	T6	T70°C	6	15
XLP38 & (XFP240-21060)	2 (38 W)	IIC	T6	T70°C	6	15
XLP21V	1 (20.5 W)	IIB	T6	T70°C	6	15
XLP38V	1 (38 W)	IIB	T6	T70°C	6	15

**MARKING**

The marking is modified as follows:

A) For autonomous safety blocks type XEL...

D.T.S


F-77831 OZOIR LA FERRIERE Cedex

XEL...(\*)

INERIS 11ATEX0052X

(Serial number)

(Year of construction)

 II 2 GD

Ex d e IIC T6 Gb

Ex tb IIIC T80°C Db - IP66

T. amb : if -20°C to 55°C

On the lamp compartment the symbol "d"

On the cover of the terminal box the symbol "e"

(Rated voltage and rated current and/or rated power)

Cable entries: see instructions

**WARNINGS:** DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE IS PRESENT

For the versions with polycarbonate tube :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

(\*) The dots are replaced by a codification according to the manufacturing variations. The different types are indicated in the descriptive documents



B) For Lighting fixtures type XFP/XLP/XEP/XEL

D.T.S


F-77831 OZOIR LA FERRIERE Cedex

XFP... or XLP... or XEP... or XEL...(\*)

INERIS 11ATEX0052X

(Serial number)

(Year of construction)

 II 2 GD

Ex d e II(\*\*) T(\*\*) Gb

Ex tb IIIC T(\*\*) Db - IP66

T. amb : If -20°C to 55°C

On the lamp compartment the symbol "d"

On the cover of the terminal box the symbol "e"

(Rated voltage and rated current and/or rated power)

Cable entries : see instructions

**WARNINGS:** DO NOT OPEN WHEN ENERGIZED  
AFTER DE-ENERGEZING, WAIT (\*\*) MINUTES BEFORE OPENING

For the versions with polycarbonate tube :

POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

(\*) The dots are replaced by a codification according to the manufacturing variations. The different types are indicated in the descriptive documents

(\*\*) See table 2

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 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° 11.10.07.129 rev 0 (16 rubrics)         | signed on 2013.05.22 |
| - Technical file n° 13.01.15.137 rev 0 (6 rubrics)          | signed on 2013.05.22 |
| - Instruction and maintenance notice NT 12 rev 5 (4 pages)  | signed on 2013.05.22 |
| - Instruction and maintenance notice NT 52 rev 0 (4 pages)  | signed on 2013.05.22 |
| - Instruction and maintenance notice NT 06 rev 8 (15 pages) | signed on 2013.05.22 |

(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, it is ensured by:

- Conformity to the European standards listed in paragraph (15).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2013.06.21



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