



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No. : **IECEx LCI 04.0018** Issue No. : **2**

Status : **Current** Page **1** of **6**

Date of Issue : **2006-10-11**

Applicant : **A.T.X.**
E.N.I. rue André DUHOUCHEZ
80084 AMIENS Cedex 02
France

Electrical Apparatus : **Tubular Floodlight - FLd**

Optional accessory :

Type of Protection : **Flameproof 'd'**

Marking: **ATX**
Noisy Le Sec - France
FLd...
Ex d IIB / IIC T4 to T6
IP66/67
Ex tD A21 IP66/67 T*
IECEx LCI 04.0018

* : See temperature table

Approved for issue on behalf of the IECEx
Certification Body :

Position :

Signature :
(for printed version)

Date :

Marc GILLAUX

Manager of the Certification body

2006-10-11

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx website.

Certificate Issued by :

Laboratoire Central des Industries Electriques (LCIE)

33 Avenue du Général Leclerc
FR-92260 Fontenay-aux-Roses
France





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Manufacturer: **A.T.X.**
E.N.I. rue André DUROUCHEZ
80084 AMIENS Cedex 02
France

Manufacturing location(s):
A.T.X.
2 rue André DUROUCHEZ
80084 AMIENS Cedex 02
France

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS :

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

| | |
|---|--|
| IEC 60079-0 : 2000 Edition: 3.1 | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements |
| IEC 60079-1 : 2001 Edition: 4 | Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures "d" |
| IEC 61241-0 : 2004 Edition: 1 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements |
| IEC 61241-1 : 2004 Edition: 1 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosure "D" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

IECEX AIR :

File Reference :

IECEX Test Report

LCIE 60022699-516373 – issue 0

IECEX Test Report

FR/LCIE/ExTR06.0019/00 – issue 2



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Schedule

EQUIPMENT :

Equipment and systems covered by this certificate are as follows :

DESCRIPTION

Glass tubular floodlight declined in 4 lengths (FLd 335, FLd 600, FLd 1200 and FLd 1500) which can be equipped with one or two incandescent lamps (40W max), or one or two fluorescent lamps (65W max).
The apparatus, with suitable fixed cable glands or fixed blanking elements, maintain an IP66/67 degree of protection.

The apparatus may be equipped in variant with careenage, reflectors or protective grid.

FLd 335 models can also be used as optical signaling and lighting column.

MARKING

ATX

Nosy Le Sec - France

FLd ...

Serial number

Ex d IIB or I C T4, T5 or T6 (depending on models and contents, see following table)

IP66/67

Ex :D A21 IP66/67 T₁

IECEX LCI 04.0018

Tamb. : ... (if Tamb. > +40°C, see following table)

DO NOT OPEN WHEN ENERGIZED

* : See temperature table for dust

When necessary:

TIME DELAY BEFORE OPENING: ... min (depending on models and contents, see following table)

For 15J optical signaling:

Working 1 hour - Stopping 10 min

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

TABLE OF TEMPERATURE CLASSES AND TIME DELAYS BEFORE OPENING

| Models | Contents | Gas group | Temperature classes and time delays before opening | | | |
|---------------------------|---------------------------------------|-------------|--|-----------------|---------------------------------------|-----------------|
| | | | Without careenage or external reflectors | | With careenage or external reflectors | |
| | | | Ta. = +40°C | Ta. = +55°C | Ta. = +40°C | Ta. = +55°C |
| FLd 335 | - Incandescent lamps 40W | IIC | T5 . 30 min | T5 . 30 min | T5 . 30 min | T5 . 30 min |
| | - Fluo lamps 20W | IC | T6 . 50 min | T5 . 50 min | T5 . 30 min | T4 . 50 min |
| | - Fluo lamps 18W (G5-G22) | IC | T5 . 50 min | T5 . 50 min | T5 . 30 min | T5 . 50 min |
| | - Fluo lamps 18W (2 G11) | IC | T6 . 50 min | T5 . 50 min | T5 . 30 min | T4 . 30 min |
| | - Optical signalling: 5J < E < 11J | IIC | T6 . 20 min | T6 . 20 min | T6 . 20 min | T6 . 20 min |
| | Γ = 15J | IIC | T6 . 30 min (1) | T5 . 30 min (1) | T6 . 30 min (1) | T5 . 30 min (1) |
| | - Lighting column 10W | IIC | T6 | T6 | T6 | T6 |
| - Sodium vapor lamp 70W | IIC | T4 . 10 min | T4 . 10 min (2) | - | - | |
| FLd 600 | - Fluo lamps G13 1 x 18W | IIC | T6 . 50 min | T6 . 50 min | T6 . 50 min | T5 . 30 min |
| | 2 x 18W | IIC | T6 . 50 min | T6 . 50 min | T6 . 50 min | T5 . 30 min |
| | - Fluo lamps (2 G11) 1 x 36W | IIC | T6 . 50 min | T5 . 30 min | T6 . 50 min | T4 . 30 min |
| | 2 x 36W | IIC | T6 . 50 min | T5 . 30 min | T5 . 30 min | T4 . 30 min |
| | 1 x 55W | IC | T6 . 50 min (*) | T5 . 50 min | T5 . 30 min | T4 . 50 min |
| | 2 x 55W | IC | T6 . 50 min (*) | T5 . 50 min | T5 . 30 min | T4 . 30 min |
| | FLd 1200 - Fluo lamps 40W | IIB | T6 . 30 min | T6 . 30 min | T6 . 30 min | T6 . 30 min |
| FLd 1500 - Fluo lamps 65W | IIB | T6 . 30 min | T6 . 30 min | T6 . 30 min | T5 . 30 min | |

(1) With mention : "Working 1 hour - Stopping 10 min"

(2) Tamb. max +50°C for FLd 335 HF 70 W mode

(*) 25 min with Magnetek ballast B3T 158 and 268

ROUTINE TESTS

Each single enclosure must be submitted to overpressure test in accordance with paragraph 16 of IEC 60079-1, for at least 10 seconds, and without exceeding 1 minute, and with the following values:

| Models | Overpressure value |
|----------|--------------------|
| FLd 335 | 1,3 bar |
| FLd 600 | 20 bar |
| FLd 1200 | 1,3 bar |
| FLd 1500 | 9,3 bar |



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EQUIPMENT(continued):

TABLE OF TEMPERATURE FOR DUST

| Models | Contents | Gas group and subdiv. | T° classes, surface T° and delay before opening | | | | | |
|----------|-----------------------------------|-----------------------|---|-----------------|-------------|-------------------------------------|-----------------|------------|
| | | | Without fairing or external reflectors | | | With fairing or external reflectors | | |
| | | | Ta. = +40°C | Ta. = +55°C | Surface T° | Ta. = +40°C | Ta. = +55°C | Surface T° |
| FLd 335 | - Inc. lamps 40W | IIC | T5 . 30min | T5 . 30 min | 95°C | T5 . 30 min | T5 . 30 min | 95°C |
| | - Fluo lamps 26W | IC | T6 . 50min | T5 . 50 min | 95°C | T5 . 30 min | T4 . 30 min | 130°C |
| | - Fluo lamps 18W (G5-G23) | IC | T6 . 50min | T5 . 50 min | 95°C | T6 . 50 min | T5 . 50 min | 130°C |
| | - Fluo lamps 18W (2 G11) | IIC | T5 . 50min | T5 . 50 min | 95°C | T5 . 30 min | T4 . 30 min | 130°C |
| | - Optical signaling. 5J < E < 11J | IIC | T6 . 20min | T6 . 20 min | 95°C | T6 . 20 min | T6 . 20 min | 95°C |
| | - E = 1kJ | IIC | T6 . 90min (1) | T6 . 90 min (1) | 95°C | T6 . 30 min (1) | T5 . 90 min (1) | 95°C |
| | - E = 1kJ | IIC | T6 . 6 | T6 | 80°C | T6 | 6 | 80°C |
| FLd 605 | - Lighting column 10W | IIC | T4 . 10min | T4 . 10 min | 122°C | - | - | - |
| | - 70W HP | | | | | | | |
| | - Fluo lamps G13 1 x 18W | IC | T6 . 50 min | T6 . 50 min | 80°C | T6 . 50 min | T5 . 30 min | 95°C |
| | 2 x 18W | IIC | T6 . 50 min | T6 . 50 min | 80°C | T6 . 50 min | T5 . 30 min | 95°C |
| | - Fluo lamps (2 G11) 1 x 36W | IC | T6 . 50 min | T5 . 30 min | 95°C | T6 . 50 min | T4 . 30 min | 130°C |
| | 2 x 36W | IIC | T6 . 50 min | T5 . 30 min | 95°C | T5 . 30 min | T4 . 30 min | 130°C |
| | 1 x 55W | IIC | T6 . 50 min | T5 . 50 min | 95°C | T5 . 30 min | T4 . 50 min | 130°C |
| 2 x 55W | IIC | T6 . 50 min | T5 . 50 min | 95°C | T5 . 30 min | T4 . 30 min | 130°C | |
| FLd 1200 | - Fluo lamps 40W | IIB | T6 . 30 min | T6 . 30 min | 80°C | T6 . 30 min | T5 . 30 min | 80°C |
| FLc 1800 | - Fluo lamps 65W | IIB | T6 . 30 min | T6 . 30 min | 80°C | T6 . 30 min | T5 . 30 min | 95°C |

(1) With mention : "Working 1 hour - Stopping 10 min"



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DETAILS OF CERTIFICATE CHANGES (for issue 1 and above) :

Issue 1 : ATR n°LCIE 60031241 529472 / 09
Modification of address of the applicant which becomes:
A.T.X.
E.N.I. rue André DUROUCHÉZ
80084 AMIENS CEDEX 2. FRANCE

Issue 2 : ExTR n° FR/LCI/Ex1106.0019/00
Possibility to use the apparatus in the presence of combustible dust