



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx INE 20.0049X**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2022-06-16\)](#)

[Issue 0 \(2020-12-08\)](#)

Date of Issue: 2025-01-07

Applicant: **SPANNINGA France**
30, Route de Genève
NANTUA 01130
France

Equipment: **Lighting module type 520100**

Optional accessory:

Type of Protection: **"ia"**

Marking: **Ex ia IIC T4..T3 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)

Thierry HOUEIX

Ex Certification Officer

Signé électroniquement
Digitally signed by
Thierry HOUEIX
Ex Certification Officer
Délégué Certification



2025-01-13

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Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France





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Manufacturer: **SPANNINGA France**
30, Route de Genève
NANTUA 01130
France

Manufacturing
locations: **SPANNINGA France**
30, Route de Genève
NANTUA 01130
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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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:

Test Reports:

[FR/INE/ExTR20.0052/00](#)

[FR/INE/ExTR20.0052/01](#)

[FR/INE/ExTR20.0052/02](#)

Quality Assessment Report:

[FR/INE/QAR13.0009/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The integrated lighting module type 520100 is assembled in serial and as an option inside the firemen helmet flank. The complete lighting module, as the previous version, is designed to be fully integrated inside the F1XF and Cairns XF1 firemen helmet. The Cairns XF1 helmet is very similar and only different by a black plastic esthetic ring along the edge of the helmet.

The lighting is used for external rescue operation and also in presence of explosive atmosphere.

The lighting is made of 2 modules right and left. The electrical continuity is ensuring with a cable.

Only the optical lenses in both flanks are visible but protected by the both glasses of the helmet. A cable assures the electrical continuity. Therefore, the lighting module is completely integrated inside the helmet.

The apparatus is protected by the type of protection Ex ia Gb (intrinsic safety) and it supplied by primary or secondary cells.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- For T4 temperature class only following cell must be used:
 - DURACELL type Zn/MnO₂ – AAA - PROCELL CONSTANT POWER PC2400
 - DURACELL type Zn/MnO₂ – AAA - PROCELL INTENSE POWER PX2400
 - ENERGIZER type Zn/MnO₂ – AAA – INDUSTRIAL
 - DURACELL type Zn/MnO₂ – AAA - PROCELL MN2400
 - DURACELL type Zn/MnO₂ – AAA - ULTRA POWER MX2400
 - DURACELL type Zn/MnO₂ – AAA - ID2400 INDUSTRIAL
 - ENERGIZER type Li/FeS₂ – AAA – L92 Ultimate Lithium
- For T3 temperature classes only following cell or battery must be used:
 - DURACELL type Zn/MnO₂ – AAA - PROCELL CONSTANT POWER PC2400
 - DURACELL type Zn/MnO₂ – AAA - PROCELL INTENSE POWER PX2400
 - ENERGIZER type Zn/MnO₂ – AAA – INDUSTRIAL
 - DURACELL type Zn/MnO₂ – AAA - PROCELL MN2400
 - DURACELL type Zn/MnO₂ – AAA - ULTRA POWER MX2400
 - DURACELL type Zn/MnO₂ – AAA - ID2400 INDUSTRIAL
 - DURACELL type NiMH AAA – SUPREME – 1000mAh
 - DURACELL type NiMH AAA – 750mAh
 - ENERGIZER type Li/FeS₂ – AAA – L92 Ultimate Lithium
- Do not replace or charge batteries in hazardous areas.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For issue 02:

- Change of the name of the applicant/manufacture.
Formerly was JOS International, becomes SPANNINGA France.
- Change of address but unchanged plant.
Formerly was Z.I du Pradon, becomes 30, route de Genève.
- Addition of 2 cells types :
 - DURACELL PROCELL CONSTANT POWER PC2400
 - DURACELL PROCELL INTENSE POWER PX2400

For issue 01:

- Update of the BOM of the apparatus integrating modifications of plastics and resin.

Annex:

[IECEx INE 20.0049X-02_Annex.pdf](#)



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Annex: IECEx INE 20.0049X-02_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

The power supply of the apparatus must be done with the following cells or batteries:

- DURACELL type Zn/MnO₂ – AAA - PROCELL CONSTANT POWER PC2400
- DURACELL type Zn/MnO₂ – AAA - PROCELL INTENSE POWER PX2400
- ENERGIZER type Zn/MnO₂ – AAA – INDUSTRIAL
- DURACELL type Zn/MnO₂ – AAA - PROCELL MN2400
- DURACELL type Zn/MnO₂ – AAA - ULTRA POWER MX2400
- DURACELL type Zn/MnO₂ – AAA - ID2400 INDUSTRIAL
- DURACELL type NiMH AAA – SUPREME – 1000mAh
- DURACELL type NiMH AAA – 750mAh
- ENERGIZER type Li/FeS₂ – AAA – L92 Ultimate Lithium

See the specific conditions of use for temperature classification according to the cells used.

MARKING

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

- SPANNINGA France
- F - 01130 NANTUA
- Type 520100
- IECEx INE 20.0049X
- Ex ia IIC T4..T3 Gb
- Tamb. : -20°C to +50°C
- WARNING:
 - For batteries – See instructions

ROUTINE EXAMINATIONS AND TESTS

None