



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 INE 18.0029X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-02-11\)](#)

Status: **Current**

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Date of Issue: **2019-02-11**

Applicant: **TELEPHONES LE LAS**
34-36 RUE ROGER SALENGRO
94134 FONTENAY-SOUS-BOIS Cedex
France

Equipment: **Optical and/or Acoustic Signaling type 218A1 or 218A2 or 218A3 or 218A4 or 218A5**

Optional accessory:

Type of Protection: **db tb**

Marking:

Ex db IIB + H₂ + CS₂ T6 Gb or
Ex db IIB + H₂ T5 or T4 Gb or
Ex db IIC T6 or T5 or T4 Gb

Ex tb IIIC T85°C or T100°C or T135°C Db

Approved for issue on behalf of the IECEx

Thierry HOUEIX

Certification Body:

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

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:

INERIS
Institut National de l'Environnement Industriel
et des Risques, BP n2
Parc Technologique ALATA
France



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Manufacturer: **TELEPHONES LE LAS**
34-36 RUE ROGER SALENGRO
94134 FONTENAY-SOUS-BOIS Cedex
France

Additional Manufacturing location(s):

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 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0
IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

*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

Test Report:

[FR/INE/ExTR18.0028/00](#)

Quality Assessment Report:

[FR/INE/QAR13.0001/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The flameproof enclosures (optical and /or acoustic signalization) type 218A. are made in light alloy AS13.

There are five types :

- 218A1 : buzzer for Group IIC
- 218A2 : buzzer for Group IIB + H₂ + CS₂
- 218A3 : flash lamp for Group IIC
- 218A4 : flash lamp and buzzer combined for Group IIC
- 218A5 : flash lamp and buzzer combined for Group IIB + H₂ + CS₂

All types are intended to be used in combustible dust Group IIIC.

Connections to the external electrical circuits are made via cable entries of a certified type.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The screws used for the assembly of the various parts of explosion-proof enclosures must be of quality higher or equal to 8.8 or A2-70.

The value of flameproof joints (lengths and gaps) are detailed on drawings FEF218A3 rev A and KLM218A2 rev.A.

Annex:

[IECEX INE 18.0029X-00_Annex.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage: 250 Vac
Nominal Frequency: 50 Hz

MARKING

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

218A1:

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A1
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T6 Gb
- Ex tb IIIC T85°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)

218A2:

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A2
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIB + H₂ + CS₂ T6 Gb
- Ex tb IIIC T85°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)

218A3: (21Joules and 15 Joules electronic boards)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A3
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T4 Gb
- Ex tb IIIC T135°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)



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218A3: (5 Joules electronic board)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A3
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T6 Gb
- Ex tb IIIC T85°C Db
- Tamb: -40°C to +40°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 21 MINUTES BEFORE OPENING »
- Threads: (type)

218A3: (5 Joules electronic board)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A3
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T5 Gb
- Ex tb IIIC T100°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)

218A4: (21Joules and 15 Joules electronic boards)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A4
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T4 Gb
- Ex tb IIIC T135°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)

218A4: (5 Joules electronic board)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A4
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T5 Gb
- Ex tb IIIC T100°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)



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218A4: (5 Joules electronic board)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A4
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIC T6 Gb
- Ex tb IIIC T85°C Db
- Tamb: -40°C to +40°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 21 MINUTES BEFORE OPENING
- Threads: (type)

218A5 : (21Joules and 15 Joules electronic boards)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A5
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIB + H₂ T4 Gb
- Ex tb IIIC T135°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)

218A4 : (5 Joules electronic board)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A4
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIB + H₂ T5 Gb
- Ex tb IIIC T100°C Db
- Tamb: -40°C to +60°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 12 MINUTES BEFORE OPENING
- Threads: (type)

218A5 : (5 Joules electronic board)

- LELAS
- FR-94134 FONTENAY-SOUS-BOIS
- 218A5
- IECEX INE 18.0029X
- (Serial number)
- Ex db IIB + H₂ + CS₂ T6 Gb
- Ex tb IIIC T85°C Db
- Tamb: -40°C to +40°C
- WARNING:
 - DO NOT OPEN WHILE ENERGIZED
 - AFTER DE-ENERGIZED, DELAY 21 MINUTES BEFORE OPENING
- Threads: (type)



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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

In accordance with clause 16.1 of the IEC 60079-1 standard, each piece of equipment defined above has to have successfully passed, before delivery, a static overpressure test of a period from 10 seconds minimum on each one of following flameproof enclosures under a pressure of:

- 15 bar for the Buzzer
- 12 bar for the Flash lamp