



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 19.0004X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1
Date of Issue: 2019-10-23
Applicant: **SAMMODE SA**
24, rue des Amandiers
75020 Paris
France
Equipment: **LED lighting fixtures LumLed1: Range ALDER - Type ALD133***, Range SABATIER - Type SAB133*** and Range FRANKLIN - FRAN133*****
Optional accessory:
Type of Protection: **eb, mb, tb**
Marking: Ex eb mb IIC T4 Gb
Ex tb IIIC T65°C Db IP66
The complete marking is detailed in Annex.

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUËIX

Ex Certification Officer

Position:

Signature:
(for printed version)



Thierry HOUËIX

Digitally signed by
Thierry HOUËIX

Date:

2019-10-23

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2. This certificate is not transferable and remains the property of the issuing body.
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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



controlling risks
for sustainable development



IECEx Certificate of Conformity

Certificate No.: **IECEx INE 19.0004X**

Page 2 of 4

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Manufacturer: **SAMMODE SA**
24, rue des Amandiers
75020 Paris
France

Additional
manufacturing
locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR19.0005/00

FR/INE/ExTR19.0005/01

Quality Assessment Report:

FR/INE/QAR13.0006/05



IECEx Certificate of Conformity

Certificate No.: **IECEx INE 19.0004X**

Page 3 of 4

Date of issue: 2019-10-23

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This range of lighting fixtures is suitable for explosive gas explosive atmospheres of Group IIC (EPL Gb) and for dust explosive atmospheres Group IIIC (EPL Db). The lighting fixtures are protected by increased safety "eb" and by enclosure "tb" including encapsulated LED array "mb" and encapsulated LED driver "eb mb". The encapsulated LED array and driver are covered by Ex component certificates as detailed in Annex. The lighting fixtures exist in standard version only.

The enclosure comprises a transparent body made in glass or polycarbonate (PO or POME) and two flanges in stainless steel, only one is mobile and can be opened.

The enclosure gets the protection degrees IP66 according to the standard IEC 60529.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The ambient temperature range of LED lighting fixtures Lumled1 is from -20°C to +40°C (excepted for Model: SAB133***-25H and FRAN133***-25H) or from -20°C to +35°C for Model SAB133***-25H and FRAN133***-25H.
- The enclosure presents a potential electrostatic charging hazard, safety precautions are defined in the instructions guide about how to proceed with installation and maintenance activities so electrostatic build-up risk is minimized.

The other conditions of use are stipulated in the instructions.



IECEx Certificate of Conformity

Certificate No.: **IECEx INE 19.0004X**

Page 4 of 4

Date of issue: 2019-10-23

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Purpose of the Issue 1 :

- Introduction a new range : FRANKLIN – Model FRAN133***
- Modification of the electrical parameters

Annex:

IECEx INE 19.0004X-01_Annex.pdf



IECEx Certificate of Conformity

Certificate No.: IECEx INE 19.0004X

Issue No.: 1

Page 1 of 2

Annex: IECEx INE 19.0004X-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Type	Rated supply voltage	Qty LED module(s)	Driver(s)		Power	Range of ambient temperature
			Qty	Maximum driver output current		
SAB133 – 12 H or ALD133 – 12H or FRAN133 – 12H	110-240Vac, 50/60 Hz; 220-240Vdc	1	1	68mA	14W	-20°C to +40°C
SAB133 – 22 H or ALD133 – 22H or FRAN133 – 22H		1	1	116mA	26W	
SAB133 – 14 H or ALD133 – 14H or FRAN133 – 14H		1	1	113mA	25W	
SAB133 – 24 H or ALD133 – 24H or FRAN133 – 24H		1	1	208mA	47W	
SAB133 – 15 H or ALD133 – 15H or FRAN133 – 15H		1	1	208mA	47W	
SAB133 – 25 H or FRAN133 – 25H		2	2	416mA (208mA for each driver)	94W	-20°C to +35°C

MARKING

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

- SAMMODE SA
- 75020 Paris - FRANCE
- Type: SAB133***⁽¹⁾ or ALD133***⁽¹⁾ or FRAN133***⁽¹⁾
- IECEx INE 19.0004X
- Serial Number
- Ex eb mb IIC T4 Gb
- Ex tb IIIC T65°C Db
- IP66
- -20°C ≤ Ta ≤ +35°C or +40°C⁽²⁾
- Rated voltage
- Maximum current
- WARNINGS:
 - DO NOT OPEN WHEN ENERGIZED
 - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
 - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

(1) Type is completed by number and/or letter corresponding to the manufacturer variations.

(2) Range of ambient temperatures if different from -20°C to 40°C : See "Parameters relating to the safety"

EXAMINATIONS AND TESTS

Each piece of equipment defined above shall comply before delivery with the clause 7.1 of IEC 60079-7 standard by a test of dielectric strength on each of the different circuits or alternative method as described in this clause of the standard.



IECEx Certificate of Conformity

Certificate No.: IECEx INE 19.0004X

Issue No.: 1

Page 2 of 2

Annex: IECEx INE 19.0004X-01_Annex.pdf

LIST OF Ex COMPONENTS

Designation of component	Manufacturer	Type	Certificate	Standards	Ex marking
Encapsulated LED lamp	Barel AS	ARC 600 840 (Art.11964) or ARC 600 860 (Art.11966) or ARC 1200 840 (Art.11984) or ARC 1200 860 (Art.11986)	IECEx PRE 15.0014U (Issue 2)	IEC 60079-0 :2017 IEC 60079-18 :2014 ⁽¹⁾ IEC 60079-28 :2015	Ex mb op is IIC Gb
Electronics ballast	Barel AS	Driver HFX LED 12,5 - 25 W (Art.12951) or Driver HFX LED 25 - 50 W (Art.12949)	IECEx PRE 14.0039U (Issue 5)	IEC 60079-0 :2017 IEC 60079-7 :2015 ⁽²⁾ IEC 60079-18 :2014 ⁽¹⁾	Ex eb mb IIC T4 Gb

(1) The Ex component is not impacted by the major technical changes of IEC 60079-18:2017

(2) The Ex component is not impacted by the major technical changes of IEC 60079-7:2017