



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 19.0034X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2020-02-17)

Status: **Current** Issue No: 1

Date of Issue: 2021-11-29

Applicant: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

Equipment: **LED Floodlight type SFL**

Optional accessory:

Type of Protection: **Ex ec Ex tc**

Marking: Ex ec IIC T... Gc
Ex tc III... T... °C Dc IP66
Tamb : - 40 to +60 °C

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

2021-11-29

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.
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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 19.0034X**

Page 2 of 4

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Manufacturer: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[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/ExTR19.0054/00](#)

[FR/INE/ExTR19.0054/01](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/14](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX INE 19.0034X**

Page 3 of 4

Date of issue: 2021-11-29

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This product is a LED floodlight protected by increased safety “ec” and by enclosure “tc” with LED array PCB, LED driver and certified terminals “eb”. It exists in Standard version only.

As per exceptions listed in scope of IEC 60079-28, LED floodlight were not assessed for Type of Protection “Ex op is”.

This product includes a metallic body and cover. A transparent window is fixed on the cover. A certified venting valve can be installed on type SFLA and SFLP.

The cover of LED floodlight type SFLJ is fixed to the body by allen screws.

The cover of LED floodlights type SFLP and SFLA are fixed to the body by hinges, closed on the body with clips and screws

The sealing is achieved using gaskets fixed in the grooves of the body and on the windows.

The enclosures get the degree of protection IP66 in accordance with the IEC 60529 standard.

The LED floodlights can be supplied without lens (SM), with asymmetrical lens (AS) or with road lens (ST). They are fixed thanks to inclinable contoured bracket. They can be used in all positions.

The LED floodlight can be equipped with the certified components: The list is provided in Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The user shall take into consideration during the installation of the LED floodlight type SFL, that the product underwent only a shock corresponding to an energy of a low risk of mechanical danger.



IECEX Certificate of Conformity

Certificate No.: **IECEX INE 19.0034X**

Page 4 of 4

Date of issue: 2021-11-29

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue n°01 :

- Change of the name and address of the applicant and manufacturer
- Update of the marking plates

Annex:

[IECEX INE 19.0034X-01_Annex.pdf](#)



IECEx Certificate of Conformity

Certificate No.: IECEx INE 19.0034X

Issue No.: 01

Page 1 of 2

Annex: IECEx INE 19.0034X-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

The different LED floodlights have to be supplied with the following rated voltage:

| | MODEL | | |
|------------------------|--------------------------------|--|--|
| | SFLJ | SFLP | SFLA |
| Maximum supply voltage | 277V _{AC} 50/60 Hz | 277V _{AC} , 50/60 Hz 225 V _{DC} | 277V _{AC} , 50/60 Hz 250 V _{DC} |
| Maximum input current | 0.60 A | 1.87 A | 3.30 A |

MARKING

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

- BARTEC FN ⁽¹⁾
- 20090 Trezzano Sul Naviglio - ITALY
- SFL ** ⁽²⁾
- IECEx INE 19.0034X
- Serial number
- Ex ec IIC T... ⁽³⁾ Gc
- Ex tc III... ⁽³⁾ T... °C ⁽³⁾ Db IP66
- T. Amb: -40°C to + 60°C
- T. Cable: ... °C ⁽³⁾
- WARNINGS:
 - DO NOT OPEN WHEN ENERGIZED.
 - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

(1) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"

(2) Number Logic :

LED floodlight type SFL(A)(B) where:

A = model (J, P or A);

B = PCB type equipped with LED - tables below described possible combinations;

(3) Maximum surface temperatures and Gas/Dust group depending on the model:

| Model | PCB type with LED (*) | T. Class for Gas | Gas group | T. surface for Dust | Dust group | T. Cable |
|-------|-----------------------|------------------|-----------|---------------------|------------|----------|
| SFL J | Serie B | T3 | IIC | T120°C | IIIB | 75°C |
| SFL P | Serie A | T4 | IIC | T115°C | IIIB | 75°C |
| | Serie B | | | | | |
| SFL A | Serie A | T4 | IIC | T135°C | IIIC | 80°C |
| | Serie B | | | | | |

(*) Detail of the PCB in certification file.



IECEX Certificate of Conformity

Certificate No.: IECEx INE 19.0034X

Issue No.: 01

Page 2 of 2

Annex: IECEx INE 19.0034X-01_Annex.pdf

ROUTINE EXAMINATIONS AND TESTS

Each pieces of equipment defined above must have successfully passed; before delivery:

In accordance with clause 7.1 of the IEC 60079-7 standard, a test of dielectric strength on each of the different circuits of the connection units, performed according to the relevant standards.

- Dielectric strength test between primary circuit and earth.
- Dielectric strength test between secondary circuit and earth.

LIST OF Ex COMPONENTS

| Designation of component | Manufacturer | Type | Certificate | Standards | Ex marking |
|--------------------------|--|----------------------------|--------------------|---|-------------------------------|
| Terminal block | CABUR S.r.l | BPL 4 and TPL 4 | IECEX CES 11.0008U | IEC 60079-0 : 2011 ⁽¹⁾ IEC 60079-7 : 2015 ⁽¹⁾ | Ex eb IIC Gb |
| Terminal block | Weidmüller Interface GmbH & Co. KG | AKZ4 WEMID | IECEX TUR 18.0024U | IEC 60079-0 : 2011 ⁽¹⁾ IEC 60079-7 : 2015 ⁽¹⁾ | Ex eb IIC Gb |
| Terminal block | Weidmüller Interface GmbH & Co. KG | WDU4 | IECEX ULD 14.0005U | IEC 60079-0 : 2017 IEC 60079-7 : 2017 | Ex eb IIC Gb |
| Venting Valve | W.L. Gore and associates GmbH | PolyVentEx+ (PMF200400) | IECEX IBE 17.0013U | IEC 60079-0: 2011 ⁽¹⁾ IEC 60079-7: 2015 ⁽¹⁾ IEC 60079-31 : 2013 | Ex eb IIC Gb Ex tb IIIC Db |

(1) The Ex component is not impacted by the major technical changes of IEC 60079-0:2017 and IEC 60079-7:2017