

### 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 15.0003X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 3	Issue 2 (2021-11-29) Issue 1 (2015-07-31)
Date of Issue:	2022-06-29		Issue 0 (2015-03-19)
Applicant:	<b>BARTEC F.N. S.R.L.</b> Via M. Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) <b>Italy</b>		
Equipment:	Floodlights type SFD** // SFDE** // SFDL-*** /	/ SFDEL-***	
Optional accessory:			
Type of Protection:	db, db eb, tb		
Marking:	Ex db IIB+H2 T(*) Gb or Ex db eb IIB+H2 T(*) G Ex tb IIIC T(*) Db IP66	b	
	(*) : Temperature class in accordance with the a details.	mbient temperature and the type of lamps. Se	e table in annex for
Approved for issue o Certification Body:	n behalf of the IECEx	Thierry HOUEIX	
Position:	No Centrine Interior	Ex Certification Officer Signé électroniquement Digitally signed by	
Signature: (for printed version)	TRALOSIVE ATMOST	Thierry HOUEIX Ex Certification Officer Délégué Certification	
Date: (for printed version)		2022-07-08	
2. This certificate is not	schedule may only be reproduced in full. t transferable and remains the property of the issuing body. enticity of this certificate may be verified by visiting www.ieco	ex.com or use of this QR Code.	
Certificate issued	l by:		
INERIS Institut National	de l'Environnement Industriel et des Risques	IN	ERIS

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:	<b>BARTEC F.N. S.R.L.</b> Via M. Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) <b>Italy</b>	
Manufacturing ocations:	<b>BARTEC F.N. S.R.L.</b> Via M. Pagano, 3 I - 20090 Trezzano sul Naviglio (MI) <b>Italy</b>	
EC Standard list bel ound to comply with Rules, IECEx 02 and	low and that the manufacturer's quality system,	relating to the Ex products covered by this certificate, was assessed and
EC Standard list bel ound to comply with Rules, IECEx 02 and STANDARDS :	low and that the manufacturer's quality system, the IECEx Quality system requirements. This of d Operational Documents as amended any acceptable variations to it specified in the s	tive of production, was assessed and tested and found to comply with the relating to the Ex products covered by this certificate, was assessed and certificate is granted subject to the conditions as set out in IECEx Scheme schedule of this certificate and the identified documents, was found
EC Standard list bel ound to comply with Rules, IECEx 02 and STANDARDS : The equipment and a	low and that the manufacturer's quality system, the IECEx Quality system requirements. This of d Operational Documents as amended any acceptable variations to it specified in the s	relating to the Ex products covered by this certificate, was assessed and certificate is granted subject to the conditions as set out in IECEx Scheme schedule of this certificate and the identified documents, was found
EC Standard list belound to comply with Rules, IECEx 02 and STANDARDS : The equipment and a o comply with the fo EC 60079-0:2017 Edition:7.0	low and that the manufacturer's quality system, the IECEx Quality system requirements. This of d Operational Documents as amended any acceptable variations to it specified in the s illowing standards	relating to the Ex products covered by this certificate, was assessed and certificate is granted subject to the conditions as set out in IECEx Scheme schedule of this certificate and the identified documents, was found - General requirements
EC Standard list belound to comply with Rules, IECEx 02 and STANDARDS : The equipment and a o comply with the fo EC 60079-0:2017 Edition:7.0 EC 60079-1:2014-0	low and that the manufacturer's quality system, the IECEx Quality system requirements. This of d Operational Documents as amended any acceptable variations to it specified in the s illowing standards Explosive atmospheres - Part 0: Equipment	relating to the Ex products covered by this certificate, was assessed and certificate is granted subject to the conditions as set out in IECEx Scheme schedule of this certificate and the identified documents, was found - General requirements protection by flameproof enclosures "d"
EC Standard list belound to comply with Rules, IECEx 02 and STANDARDS : The equipment and a o comply with the fo EC 60079-0:2017 Edition:7.0 EC 60079-1:2014-0 Edition:7.0 EC 60079-31:2013	low and that the manufacturer's quality system, the IECEx Quality system requirements.This of d Operational Documents as amended any acceptable variations to it specified in the s sollowing standards Explosive atmospheres - Part 0: Equipment - 6 Explosive atmospheres - Part 1: Equipment -	relating to the Ex products covered by this certificate, was assessed and certificate is granted subject to the conditions as set out in IECEx Scheme schedule of this certificate and the identified documents, was found - General requirements protection by flameproof enclosures "d" t dust ignition protection by enclosure "t"

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

Test Report:

FR/INE/ExTR15.0003/03

#### Quality Assessment Report:

IT/CES/QAR09.0003/14



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#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The floodlight type SFD\*\* / SFDE\*\* and SFDL-\*\*/SFDEL-\*\* is constituted by :

- · A lamp compartment made in light alloys or stainless steel and with a glass sealed on the cover.
- An additional enclosure covered by a separated certificate (protected by "Ex db" or "Ex db eb" and "Ex tb"). This additional enclosure is separated from lamp compartment by a sealing bushing and is intended only for SFD\*\* with lamps 250W, 400W and 600W with external ballast and for all SFDL-\*\*/SFDEL-\*\*.
- Terminal box (only for SFDE\*\* version). This terminal box is intended to receive certified terminals as specified in the descriptive documents. The terminal box is separated from the lamp compartment by a sealed bushing.

The lighting fixture SFD\*\* / SFDE\*\* is intended to receive different types and power of lamps: See Annex for details

The lighting fixture SFDL-\*\*\*/SFDEL-\*\*\* is intended to receive only LED light sources : See Annex for details

This equipment gets the degrees of protection IP66 in accordance with IEC 60529 standard.

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

• The flameproof joints have different values from those specified in the tables of the IEC 60079-1 standard. For any repair, to contact the manufacturer

#### For floodlight type SFDL-\*\*\*/SFDEL-\*\*\*:

• During the installation, the user will take into consideration that the equipment underwent only a shock corresponding to an energy of a low risk.



Date of issue:

# IECEx Certificate of Conformity

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#### DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) For the Issue $n^{\circ}03$ :

- Application of the standards: IEC 60079-0:2017, IEC 60079-1:2014 and IEC 60079-7:2017
- Add the PCBs complete with 40 Led, 48 Led and 56 Led

For the Issue n°02:

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

For the Issue n°01:

• Introduction of new types, SFD\*\*-LED/SFDE\*\*-LED intended to receive only LEDs lighting source.

#### Annex:

IECEx INE 15.0003X-03\_Annex.pdf



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Annex: IECEx INE 15.0003X-03\_Annex.pdf

#### PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage: 277 V (or lower in accordance the manufacturer's instructions)

The type and maximum power of lamps allowed are specified in the table of the marking paragraph.

These enclosures can be use in the range of ambient temperatures from -20°C up to +60°C.

#### MARKING

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

- BARTEC FN <sup>(1)</sup>
- I 20090 Trezzano sul Naviglio (MI)
- SFD\*\* // SFDE\*\* // SFDL-\*\*\* // SFDEL-\*\*\* (2)
- IECEx INE 15.0003X
- (Serial number)
- Ex db IIB+H2 T<sup>(3)</sup> Gb or Ex db eb IIB+H2 T<sup>(3)</sup> Gb
- Ex tb IIIC T<sup>(3)</sup> Db IP66
- Tamb : <sup>(3)</sup>
- T. cable: <sup>(3)</sup>
- CABLE GLAND : (Type and size)
  - WARNINGS: DO NOT OPEN WHEN ENERGIZED AFTER DE-ENERGIZING, DELAY 20 MINUTES BEFORE OPENING USE SCREWS WITH MINIMUM QUALITY : A2-70
- (1) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"
- (2) The type is completed by a letter and numbers in accordance with the manufacturing variations. On the lamp compartment : the symbol "d" On the terminal compartment : the symbol "e"
- (3) Temperature class, maximum ambient temperature and temperature of the cable are specified in the table at the end

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

For floodlight type SFD\*\*/SFDE\*\*\*:

In accordance with clause 16.1 of the IEC 60079-1 standard, each apparatus has to have successfully passed, before delivery, an overpressure test under 10.4 bar during at least 10 second.

For floodlight type SFDL-\*\*\*/SFDEL-\*\*\*:

In accordance with clause 16.1 of the IEC 60079-1 standard, each apparatus has to have successfully passed, before delivery, an overpressure test under 11.9 bar during at least 10 second.

For floodlight with a terminal box protected by increased safety:

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



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Table of the temperature classes for the floodlight type SFD\*\*/SFDE\*\* **Temperature class** Type of the lamps Cable temperature Maximum Ambient temperature power Gas Dust 150W HPNA +40°C or +50°C or +60°C T200°C NA Т3 +40°C or +50°C Т3 T200°C NA 250W HPNA 90°C T210°C +60°C T2 +40°C Т3 T200°C NA 400W HPNA +50°C T2 T210°C 80°C +60°C T220°C 90°C T2 150W MH +40°C or +50°C or +60°C ТЗ T200°C NA +40°C or +50°C T3 T200°C NA 250W MH +60°C T200°C 90°C Т3 +40°C ТЗ T200°C NA 400W MH +50°C 80°C T2 T210°C +60°C T220°C 90°C T2 +40°C or +50°C T3 T200°C NA 175W HG +60°C 90°C Т3 T200°C +40°C or +50°C ТЗ T200°C NA 250W HG +60°C 90°C T3 T200°C +40°C Т3 T200°C NA +50°C 80°C 400W HG T2 T210°C 90°C +60°C T220°C T2 +40°C or +50°C ТЗ T200°C NA 250W BL +60°C T3 T200°C 90°C +40°C T2 T217°C NA 500W BL +50°C T2 T230°C 100°C +60°C T2 T240°C 110°C +40°C Т3 T200°C NA 300W IA +50°C T210°C 80°C T2 90°C +60°C T2 T220°C +40°C T2 T217°C NA +50°C T230°C 100°C T2 500W IA T240°C 110°C T2 +60°C 100°C T3 T200°C 250W HPNA T200°C 100°C ТЗ 400W MH +40°C or +50°C or +60°C T200°C 100°C T3 400W HG (without internal ballast) T200°C 100°C 400W HPNA Т3 600W MH T200°C 100°C Т3 600W HPNA ТЗ T200°C 100°C LED MAX 250W Τ4 NA +40°C or +50°C or +60°C T135°C

#### Annex: IECEx INE 15.0003X-03\_Annex.pdf



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Type of the lamps power	Maximum Ambient temperature	Temperature class		Cable temperature
power		Gas	Dust	1
	+40°C	Т6	T85°C	NA
20LED (160W)	+50°C	T5	T100°C	NA
	+60°C	T4	T135°C	NA
28LED (240W)	+40°C	T6	T85°C	NA
	+50°C	T5	T100°C	NA
	+60°C	T4	T135°C	NA
	+40°C	Т6	T85°C	NA
40LED (168W)	+48°C	Т6	T85°C	NA
	+60°C	T5	T100°C	NA
48LED (202W)	+40°C	T5	T100°C	NA
	+50°C	T5	T100°C	NA
	+60°C	T4	T135°C	80°C
	+40°C	T5	T100°C	NA
56LED (235W)	+50°C	T5	T100°C	NA
	+60°C	T4	T135°C	80°C

#### Table of the temperature classes for the floodlight type SFDL-\*\*\*/SFDEL-\*\*\*