



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 12.0027X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2012-06-19)

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: **Lighting fixture type EVT...**

Optional accessory:

Type of Protection: **d and tb**

Marking: Ex d IIC T6 Gb
Ex d IIC T4 Gb
Ex d IIC T3 Gb
Ex tb III C T85°C Db IP66
Ex tb III C T150°C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:
(for printed version)

2021-11-29

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.
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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



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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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2007-04](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

[IEC 60079-31:2008](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: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/ExTR12.0024/00](#)

[FR/INE/ExTR12.0024/01](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

This lighting fixture made in light alloy can be fitted with different types of lamp.
It consists to a body closed by a screwed lid fitted with a window.
This lighting fixture gets the degrees of protection IP66 in accordance with IEC 60529.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The width of the different flameproof joints is superior to this specified in the tables of IEC 60079-1 standard.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue n°1 :

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

Annex:

[IECEX INE 12.0027X-01_Annex.pdf](#)



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Annex: IECEx INE 12.0027X-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Characteristic of the lamps

Incandescent lamp:
 Maximum supply voltage : 230 V
 Maximum power incandescent lamp : 100 W

Halogen Lamp:
 Maximum supply voltage : 230 V
 Maximum power : 105 W

LED Lamp:
 Maximum supply voltage : 240 V
 Maximum power : 6 W

This lighting fixture can be use in the following range ambient temperatures:

- -20°C to +40°C or -20°C to +60°C.
- -60°C to +40°C or -60°C to +60°C.

MARKING

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

- BARTEC FN (*)
- I – 20090 Trezzano Sul Naviglio (MI)
- EVT...(*)
- IECEx INE 12.0027X
- (Serial number)
- Ex d IIC T (**) Gb
- Ex tb IIIC T(**) Db IP66
- ...°C < Tamb < ...°C (**)
- T.cable: (**)
- CABLE ENTRY : (Type and size)
- WARNINGS:
- DO NOT OPEN WHEN ENERGIZED
- AFTER DE-ENERGIZING, DELAY 3 MINUTES BEFORE OPENING (see note below)
-

(*) Optional Brands "BARTEC FEAM" or "BARTEC NASP" can be added in the marking with the sentence "manufactured by BARTEC FN"
 (**) The asterisk is replaced by a number and/or letter corresponding to manufacturing variation, the codification is stipulated on the descriptive documents.

(***) See table above.

Type and power of lamp	Ambient temperature range	Concerned explosive atmosphere		Waiting delai	Cable temperature
		Gas	Dusts		
100 W Incandescent	-20°C or -60°C/+40°C	T4	T135°C	3 min	135°C
	-20°C or -60°C/+60°C	T3	T150°C	3 min	155°C
105 W Halogen	-20°C or -60°C/+40°C	T4	T135°C	3 min	135°C
	-20°C or -60°C/+60°C	T3	T150°C	3 min	155°C
6 W LEDs	-20°C or -60°C/+40°C	T6	T85°C	***	N.C.
	-20°C or -60°C/+60°C	T6	T85°C	***	N.C.

N.C. : Non Concerned

Note: For the LED version the Warning: AFTER DE-ENERGIZING, DELAY 3 MINUTES BEFORE OPENING is replaced by DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT



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ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.1 of the IEC 60079-1 standard each apparatus defined above has to have successfully passed, before delivery, an overpressure test of a period comprised between 10 and 60 seconds under:

- 13.4 bar for ambient down to -20°C
- 18 bar for ambient down to -60°C