



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 17.0038X

Issue No: 0

Certificate history:

Issue No. 0 (2018-11-29)

Status: Current

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Date of Issue: 2018-11-29

Applicant: **FEAM**
Via Mario Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

Equipment: Floodlights type RCDE500L-***
Optional accessory:

Type of Protection: db, op Is and tb

Marking:
Ex db op is IIC T5 or T4 Gb
Ex op is tb IIIC T100°C or T135°C Db IP66
The complete marking is detailed in Annex

Approved for issue on behalf of the IECEx
Certification Body:

Olivier COTTIN

Position:

Head of Equipment and Corporate Services Unit

Signature:
(for printed version)

Date:



2018.11.29

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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



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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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR17.0047/00](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/10](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These floodlight type RCDE500L-*** are made in aluminum alloy and are intended to receive LED lighting sources as specified in the descriptive documents of the manufacturer.

The flooding type RCDE500L-*** is mainly composed of the two flameproof enclosures separated by a sealing bushing : Lighting housing and ballast housing.

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

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The length of the flameproof joints are greater than those specified in tables of IEC 60079-1 standard. For any repair, contact the manufacturer.
- During the installation, the user will take into consideration that the window of the floodlight RCDE500L-*** underwent only a shock corresponding to an energy of a low risk at 2J.



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Annex: IECEx INE 17.0038X-00_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage: 277Vac (50-60Hz) or 250Vdc

Electrical characteristic of the fuse protection for "op is" protection mode: See instructions of the manufacturer

The floodlights RCDE500L-*** can be used only with LED modules defined in the descriptive documents of the manufacturer and provided by the manufacturer.

The temperature classes following the maximum ambient temperature is specified as follows:

Ambient temperature	Concerned atmosphere explosive		T _{cable}
	Gas	Dust	
From -60°C to +40°C	T5	T100°C	N/A
From -60°C to +60°C	T4	T135°C	85°C

The floodlights RCDE500L-*** can be used in the range ambient temperatures from -60°C to 60°C.

MARKING

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

FEAM

I - 20090 Trezzano sul Naviglio (MI)

RCDE500L-*** (1)

IECEx INE 17.0038X

(Serial number)

Ex db op is IIC T⁽²⁾ Gb

Ex op is tb IIIC T⁽²⁾ Db IP66

...°C < Tamb < ...C⁽³⁾

T.cable= ...⁽⁴⁾

CABLE GLAND : (type and size)

WARNINGS: DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

- (1) The type is completed by numbers and letters corresponding to the manufacturing variations.
- (2) T5 or T4 or T100°C or T135°C : according to the versions as defined in "Parameters relating to the safety"
- (3) Range of ambient temperatures if different from -20°C to +40°C.
- (4) T.cable according to the versions as defined in "Parameters relating to the safety"

ROUTINE EXAMINATIONS AND TESTS

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

- Lighting housing of RCDE500L-***: 18 bar.
- Ballast housing of RCDE500L-***: 20.6 bar