



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 EXV 21.0015X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-04-13

Applicant: **Sunleem Technology Incorporated Company**
No.15 Xihenggang Street, Yangchenghu Town
Xiangcheng District
Suzhou, Jiangsu
China

Equipment: **Explosion-proof Floodlight Type BFD610**

Optional accessory:

Type of Protection: **Flameproof Ex 'db', Protection by Enclosure Ex 'tb'**

Marking: Ex db IIB + H2 T* Gb
Ex tb IIIC T***°C Db
Tamb : -20°C to +40°C/+55°C

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

Position:

Certification Manager

Signature:
(for printed version)

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Page 2 of 3

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Manufacturer: **Sunleem Technology Incorporated Company**
No.15 Xihenggang Street, Yangchenghu Town
Xiangcheng District
Suzhou, Jiangsu
China

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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

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 Report:

[GB/EXV/ExTR21.0020/00](#)

Quality Assessment Report:

[DE/TUR/QAR18.0015/01](#)



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Certificate No.: **IECEx EXV 21.0015X**

Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The BFD610-** explosion-proof floodlight consists of an aluminium alloy enclosure, a cemented toughened glass light transmitting cover and two entries. The enclosure is divided into two compartments as follows:

- the electrical compartment includes terminals, ballast, a capacitor, a trigger (for high pressure sodium lamp or metal halide lamp) and two entries for external connection. The two entries are closed by two blanking elements before packaging.
- the lighting compartment includes a lamp holder and a bulb.

The wire-through part between these two compartments is encapsulated.

See attachment for type designation and specific parameters of the concerned protection mode.

Rating: 220V ~ 240VAC 50/60Hz

SPECIFIC CONDITIONS OF USE: YES as shown below:

Special Conditions for Safe Use

- Repair of the threaded joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 3 and table 4 of EN 60079-1
- WARNING - AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING.
- WARNING - DO NOT OPEN WHEN ENERGIZED.
- WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.
- CAUTION - USE FASTENERS WITH YIELD STRESS $\geq 450\text{MPa}$
- In order to ensure the temperature class, the equipment shall be vertically mounted at horizontal to vertical down.

Conditions for Use (Routine tests) Manufacturer's responsibility

- Each apparatus shall be submitted to a static overpressure test under 1.2 MPa during minimum 10 seconds in accordance with clause 16.1 of IEC 60079-1:Ed 7.0

Annex:

[Annex ExV 21.0015X_1.pdf](#)