



# 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](http://www.iecex.com)

Certificate No.: **IECEx INE 15.0019X**

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Certificate history:

[Issue 0 \(2015-03-26\)](#)

Status: **Current**

Issue No: 1

Date of Issue: 2019-12-02

Applicant: **Zhejiang Tormin Electrical Co., Ltd.**  
No.35, Qingjiang Road, Technology Park  
High-Tech District, Wenzhou City  
Zhejiang Province, CN-325011  
**China**

Equipment: **LED Explosion-Proof Floodlight BC9101 series**

Optional accessory:

Type of Protection: **"d" and "tb"**

Marking: Ex d IIB T6 Gb  
Ex tb III C T80°C Db IP66

Approved for issue on behalf of the IECEx  
Certification Body:

**Thierry HOUËIX**

Position:

**Ex Certification Officer**

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**INERIS**  
Institut National de l'Environnement Industriel et des Risques  
BP n2 / Parc Technologique ALATA  
F-60550 Verneuil-en-Halatte  
France





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No.35, Qingjiang Road, Technology Park  
High-Tech District, Wenzhou City  
Zhejiang Province, CN-325011  
**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 60079-0:2011** 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:

[CN/CQM/ExTR14.0084/00](#)

[FR/INE/ExTR15.0019/00](#)

[FR/INE/ExTR15.0019/01](#)

Quality Assessment Report:

[CN/CNE/QAR19.0002/00](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The LED Explosion-proof Floodlight type BC9101... is composed of a single compartment where is installed all the equipment (LEDs, lenses, reflector, terminals, etc.).

It gets the degree of protection IP66, according to IEC 60529 standard.

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

- The width of flameproof joints is more than the values specified in the tables of the IEC 60079-1 standard.

- The screws used for the assembly of the various parts of explosion-proof enclosures must have a yield stress higher or equal to 700 N/mm<sup>2</sup>.

The other conditions are stipulated in the instructions.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

### Change regarding Issue 01:

Modification of the QAR number to CN/CNE/QAR19.0002; no other modification.

## **Annex:**

[IECEx INE 15.0019X-01\\_Annex.pdf](#)



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Annex: IECEx INE 15.0019X-01\_Annex.pdf

## PARAMETERS RELATING TO THE SAFETY

The maximum electrical parameters for each models are given in the table below:

Type	Power (W)	Input Voltage
BC9101-L25H	25	AC90~305V 50Hz/60Hz
BC9101-L40H	40	
BC9101-L60H	60	
BC9101-L80H	80	
BC9101-L25L	25	DC18~55V AC18~43V 50Hz/60Hz

## MARKING

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

- Zhejiang Tormin Electrical CO., LTD.
- China, Zhejiang,
- BC9101...(\*)
- IECEx INE 15.0019X
- (Serial number)
- Ex d IIB T6 Gb
- Ex tb IIIC T80°C Db IP66
- Tamb : -40°C to +45°C
- Cable entries : See instructions
- **WARNING:**
  - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

(\*) See table in the previous section for the complete types.

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

In accordance with § 16.1 of the IEC 60079-1 standard, each piece of equipment defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 seconds under 8 bar.