



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 CNEX 23.0006X**

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[Certificate history](#)

Status: **Current**

Issue No: 0

Date of Issue: 2023-07-06

Applicant: **Zhejiang Tormin Electrical Co., Ltd.**
No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District
Wenzhou City, Zhejiang Province 325024
China

Equipment: **Explosion-proof Floodlight model BC9101 LED Series**

Optional accessory:

Type of Protection: **Ex db, Ex tb**

Marking: Ex db IIB T6 Gb
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Hou Yandong

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

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:

CNEX-Global B.V.
Utrechtseweg 310-B42,
6812 AR ARNHEM
Netherlands





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Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**
No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District
Wenzhou City, Zhejiang Province 325024
China

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 60079-31:2022-01 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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:

[NL/CNEX/ExTR23.0006/00](#)

Quality Assessment Report:

[NL/CNEX/QAR23.0001/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Explosion-proof Floodlight model BC9101 LED Series is constructed in explosion protection type flameproof enclosure "db" for Gas environments, and in explosion protection type protection by enclosure "tb" for Dust environments. The LED light source, LED lens, reflection cup, power supply and terminals are installed in "db" chamber. The metal enclosure parts are made of aluminum alloy ADC12 with minimum thickness of 3.5 mm. The light-transmitting part is made of toughened borosilicate glass with minimum thickness of 10mm. The enclosure is fitted with threaded (M25X1.5 or NPT 3/4") openings for cable glands and stopping plugs.

For nomenclature and further details, see the Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient temperature range is limited to -40°C...+45°C.

The width of flameproof joint is more than the minimum values specified in IEC 60079-1 standard. If needed, repair of the flameproof joints must only 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 2, table 4 and table 5 of IEC 60079-1.

If the product is delivered with an integral cable gland, no other cable glands can be applied. In this case, only the cable gland parts supplied by the manufacturer shall be used. The free end of the cable shall be connected in the non-hazardous area, or in a suitable IECEx certified enclosure.

If the product is delivered with stopping plugs, the user must apply IECEx certified cable glands, rated minimum IP66, suitable for the conditions of use and correctly installed.



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Additional information:

The enclosure of the Explosion-proof Floodlight model BC9101 LED Series, successfully passed the tests for the Ingress Protection Level IP66 to IEC 60529.

Annex:

[P23023IA-CCA certificate IECEx CNEX23.0006X issue 0 Annex.pdf](#)



Annex to Certificate IECEx CNEX 23.0006X Issue 0

Equipment or Protective System: **Explosion-proof Floodlight model BC9101 LED Series**

Applicant: **Zhejiang Tormin Electrical Co., Ltd.**

Address: **No.2, Gangteng Road, Yongxing Subdistrict, Longwan District,
Wenzhou City, Zhejiang Province, P.R. China**

Nomenclature for model BC 9101-abc:

BC	-	Stationary type Ex lamp
9101	-	Design code
a	-	Lamp type: L= LED lamp
b	-	Installed lamp power [W]: 25, 40, 60 or 80
c	-	Rated voltage: H: AC100~277V; L: AC20~39V/ DC20~50V

Electrical Data for BC9101-L□L:

Rated voltage: AC 20~39V, 50/60Hz
DC 20~50V

Rated power: 40W max.

Electrical Data for BC9101-L□H:

Rated voltage: AC 100~277V, 50/60Hz
Rated power: 80W max.

Descriptive Documents:

Detailed in the Test Report Cover document. (P23023IA-CS).

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

Routine tests are detailed in the Test Report Cover Sheet.
(ref. P23023IA-CS).

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B42, 6812 AR, Arnhem, the Netherlands

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