CNEX-GLOBAL

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: **CNEX 23 ATEX 0009 X Issue 0**

[4] Equipment : **Explosion-proof Floodlight model BC9101 LED Series**

[5] Manufacturer : **Zhejiang Tormin Electrical Co., Ltd.**

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

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CNEX-Global B.V., Notified Body number 2614, in accordance with Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential Report No. **P23023IA-CS**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014
except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for use specified in the schedule to this certificate.

[11] This EU – Type examination certificate relates only to the design of the specified equipment or protective system. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 2G Ex db IIB T6 Gb or **II 2D Ex tb IIIC T80°C Db**

Certification officer : Hou Yandong
Date of issue : 2023-07-06

Signature:

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[15] Description of equipment:

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 ¾") openings for cable glands and stopping plugs.

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.

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

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

[16] Descriptive Documents:

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

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[17] Specific Conditions for Use:

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

The width of flameproof joint is more than the minimum values specified in EN 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 EN 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 ATEX certified enclosure.

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

[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements are covered by the standards listed at item [9].

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Additional Information:

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