

(1) EU-TYPE EXAMINATION CERTIFICATE



(2) Equipment and Protective Systems intended for use in
Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

TÜV 25 ATEX 9321 X

Issue: 00

(4) Equipment: **LED Explosion-proof Light, Type: BC5409 Series**

(5) Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**

(6) Address: **No.2, Gangteng Road, Yongxing Subdistrict,
Longwan District Wenzhou City, Zhejiang Province 325024,
China.**

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC / Ex9321.00 / 25.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018

EN IEC 60079-7:2015/A1:2018

EN 60079-11: 2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:



II 2 G

Ex eb ib IIC T4 Gb

Cologne, 2025-08-25

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz


Yang Wang



This EU-Type Examination Certificate without signature and stamp shall not be valid and may be circulated only without alteration.
Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
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(13)

(14)

Annex to

EU-Type Examination Certificate

TÜV 25 ATEX 9321 X

Issue: 00

(15) Description of Equipment

Equipment and type:

LED Explosion-proof Light
Type: BC5409 Series

General product information:

The LED Explosion-proof Light is designed as an increased safety and intrinsic safety structure. The equipment has an enclosure made of Aluminum alloy 6063 and plastic. This product can be used in Zone 1 and Zone 2, where there is an explosive gas mixture belonging to IIA, IIB and IIC for temperature classification T4.

Type code:

BC	□	-L	□

Rated power (W): 3, 6
L: LED
Design Number:5409
Fixed explosion-proof lighting fixtures

Details of Change:

N/A, Initial certification.

Technical data:

Electrical data
Input voltage range: 20 to 28Vdc

Intrinsically safe parameters:
Um = 30V

Environmental data
Ambient temperature: -25°C ~ +55°C

(16) Test report No.:

GC / Ex9321.00 / 25

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TÜV 25 ATEX 9321 X

Issue: 00

(17) Special Conditions for safe use

1. The LED light is a non-shock hazard equipment, and the power cable of the equipment can only be connected as below:
 - a) A SELV system with $U_m \leq 30V$.
 - b) A power apparatus complying with the IEC 60950 series, IEC 61010-1, or a technically equivalent standard with $U_m \leq 30V$.
 - c) Cells or batteries with $U_m \leq 30V$
2. The equipment comes with cables, which can be wired in non-hazardous areas; when the cable was connected in hazardous area, the cable only can be connected in a certified terminal box with suitable equipment protection level.
3. The cable gland passed the clamping tests with values reduced to 25 %, the user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.
4. The enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with damp cloth.

(18) Essential Health and Safety Requirements

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

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-08-25


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