



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 23.0005X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 0	
Date of Issue:	2023-07-04		
Applicant:	Zhejiang Tormin Electrical Co., Ltd. No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District Wenzhou City, Zhejiang Province 325024 China		
Equipment:	Explosion protected light model BC5401		
Optional accessory:			
Type of Protection:	Ex db eb, Ex tb		
Marking:	Ex db eb IIC 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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Certificate No.: **IECEx CNEX 23.0005X**

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Date of issue: 2023-07-04

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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

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Report:

[NL/CNEX/ExTR23.0005/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The BC5401-L□□□ Series explosion protected light is constructed in explosion protection types flameproof enclosure "db" and increased safety 'eb' for Gas environments, as well as in explosion protection type protection by enclosure "tb" for Dust environments. The light source, power supply, and lamp holders are installed in "db" chamber. The connections are made in the Ex 'eb' junction chambers. The metal enclosure parts are made of aluminum alloy 6063 or aluminum alloy ADC12 with minimum thickness of 3.0 mm. The light-transmitting parts is made of toughened glass with thickness of 4.0 mm. The Ex 'eb' junction chambers are fitted with threaded (M25X1.5 or NPT ¾") 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...+55°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 3, 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 BC5401-L□□□ Series explosion protected light, successfully passed the tests for the Ingress Protection Level IP66 to IEC 60529.

Annex:

[P23022IA-CCA certificate IECEx CNEX23.0005X issue 0 Annex.pdf](#)

Annex to Certificate IECEx CNEX 23.0005X Issue 0

Equipment or Protective System: **Explosion Protected Light model BC5401**

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

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

Nomenclature for motor model BC 5401-abcd:

BC	-	Fixed installation explosion protected light
5401	-	Design code
a	-	lamp type: L= LED lamp, Y= Fluorescent lamp
b	-	Number of lamps installed
c	-	Installed lamp power [W]: 7, 8, 9, 10, 14, 16, 18, 20, 25 or 28 (per lamp)
d	-	Light type: A= side entry, B= top entry (for post installation)

Electrical Data for BC5401-L□□□:

Rated voltage: AC100~240V,
Rated frequency: 50/60Hz,
Rated power: 2×25W, 2×20W, 2×18W, 2×16W, 2×10W, 2×9W, 2×8W or 2×7W.

Electrical Data for BC5401-Y□□□:

Rated voltage: AC110V, AC220V, AC230V or AC240V,
Rated frequency: 50/60Hz,
Rated power: 2×28W or 2×14W.

Descriptive Documents:

Detailed in the Test Report Cover document. (P23022IA-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. P23022IA-CS).

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

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