



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 SEV 19.0029X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2024-05-22) Issue 0 (2019-09-11)
Date of Issue:	2024-11-07		
Applicant:	Zhejiang Tormin Electrical Co., Ltd. No.2, GangTeng Road, YongXing Subdistrict, LongWan District WenZhou City, ZheJiang Province 325024 China		
Equipment:	LED Explosion Proof Light		
Optional accessory:			
Type of Protection:	eb, mb, tb		
Marking:	Ex eb mb IIC T6...T4 Gb Ex tb IIIC T80 °C...T130 °C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Munira Gamma

Position:

Manager Product Certification

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:

Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
8320 FEHRALTORF .
Switzerland



E&E



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Date of issue: 2024-11-07

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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 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2022](#) 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:

[CH/SEV/ExTR19.0030/01](#)

Quality Assessment Report:

[NL/CNEX/QAR23.0001/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Refert to Annexe

SPECIFIC CONDITIONS OF USE: YES as shown below:

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

Permitted supply short-circuit current: 35 A

WARNING – ONLY USE CABLES SUITABLE FOR 85°C (for model BC5402C-L100)



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update the standards from "IEC 60079-0:2011, Edition 6.0; IEC 60079-7:2015, Edition 5.0; IEC 60079-18:2014, Edition 4.0; IEC 60079-31:2014, Edition 2.0" to "IEC 60079-0:2017, Edition 7.0; IEC 60079-7:2015 + AMD1:2017, Edition 5.1; IEC 60079 18:2014 + AMD1:2017, Edition 4.1 ; IEC 60079 31:2022, Edition 3.0".

IEC 60079-28 Ed. 2.0 is removed because divergent LED light is not within the scope of that standard.

Update marking plate to comply with latest standards.

Annex:

[IECEx SEV 19.0029X i2 Annexe.pdf](#)

Annexe to: **IECEX SEV 19.0029X**
Issue No.: 2

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Applicant Name: **Zhejiang Tormin Electrical Co., Ltd.**
Equipment: **LED Explosion Proof Light**
BC5402A Series and BC5402C Series
Description of product

The BC5402A series and BC5402C series explosion proof light are mainly composed of a shell body and a plastic lampshade: for BC5402A series, an separate terminal box for LED driver termination is connected to the main shell body on one side and a side cover on the other side; for BC5402C series, the equipment is of one-chamber structure, on both sides are mounted wiring covers. Ex cable glands shall be installed on-site, the unused cable entries shall be plugged by Ex blanking elements during working. The lampshade is cemented with DOWSIL 7091 glue to the shell body. The lens is cemented with EP1282 epoxy resin to the light source as "mb" type of protection and WR9108 two-component addition silicone rubber is used to encapsulate the "mb" power driver. Ex certified terminals are used for connection to external circuits. Both external and internal earthings are provided.

The degree of protection of the enclosure is IP66 / IP67, according to IEC 60079-0 and IEC 60529.

Type specifications:

BC5402A series:

Model	Rated power (W)	Enclosure length (mm)	Input voltage	T _a = -40 °C ... +55 °C		T _a = -40 °C ... +40 °C	
				Temperature class	Maximum surface temperature	Temperature class	Maximum surface temperature
BC5402A-L20	20	700	120-240 V AC, 50/60 Hz	T5	T95 °C	T6	T80 °C
BC5402A-L30	30						
BC5402A-L40	40						
BC5402A-L50	50	1150		T4	T130 °C	T4	T130 °C
BC5402A-L60	60						
BC5402A-L80	80						

BC5402C series:

Model	Rated power (W)	Enclosure length (mm)	Input voltage	T _a = -40 °C ... +55 °C		T _a = -40 °C ... +40 °C	
				Temperature class	Maximum surface temperature	Temperature class	Maximum surface temperature
BC5402C-L20	20	650	200-240 V AC, 50/60 Hz	T5	T95 °C	T6	T80 °C
BC5402C-L30	30						
BC5402C-L40	40						
BC5402C-L50	50						
BC5402C-L60	60	1100		T4	T130 °C	T4	T130 °C
BC5402C-L80	80						
BC5402C-L100	100						