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 19.0026X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2019-11-14		
Applicant:	**Zhejiang Tormin Electrical Co., LTD** No.35, Qingjiang Road, Technology Park, High-Tech District Wenzhou City, Zhejiang Province, CN-325011 **China**		
Equipment:	**LED Explosion-proof Light model BC9302**		
Optional accessory:			
Type of Protection:	**Ex db, op is, tb**		
Marking:	Ex db opis IIC T5/T6 Gb Ex tb opis IIIC T95°C/T80°C Db		

Approved for issue on behalf of the IECEx Certification Body: **Hou Yandong**

Position: **Certification Officer**

Signature: (for printed version)

Date:

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-B38
6812AR, Arnhem
Netherlands

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Date of issue: 2019-11-14 Issue No: 0

Manufacturer: **Zhejiang Tormin Electrical Co., LTD**
No.35, Qingjiang Road, Technology Park, High-Tech District
Wenzhou City, Zhejiang Province, CN-325011
China

Additional 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 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR19.0026/00

Quality Assessment Report:

CN/CNE/QAR19.0002/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The LED Explosion-proof Lights model BC9302 are made of aluminium alloy ADC12, constructed with types of explosion protection flameproof enclosure 'db' and optical safety 'op is' for explosive gas atmospheres, as well as with type of explosion protection by enclosure 'tb' and optical safety 'op is' for explosive dust atmospheres. They are fitted with toughened glass windows. The LED Explosion-proof Lights model BC9302 are supplied with integral cable glands.

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 IEC60079-1 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 4 of IEC 60079-1:2014.

If the product is delivered with an integral cable gland, no other cable glands can be applied. 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 an suitable IECEx certified enclosure.

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

Only use heat-resisting cables suitable for operating temperatures greater than 95 °C in ambient temperature of -40 °C ... +55 °C.

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Equipment (continued):

For Nomenclature, electrical ratings and other information, see the Annex to this certificate.

Annex:

P18079IA-CCA certificate IECEx CNEX19.0026X Annex_1.pdf

Annex to
Certificate IECEx CNEX 19.0026X Issue 0

Equipment or Protective System: **LED Explosion-proof Light model BC9302**

Manufacturer: **Zhejiang Tormin Electrical Co., LTD**

Address: **No.35, Qingjiang Road, Technology Park, High-Tech District, Wenzhou City, Zhejiang Province, CN-325011, P.R. China**

Nomenclature for model BC 9302 a -Lb-c-d

BC	-	Fixed explosion-proof luminaire
9302	-	Design sequence
a	-	Installation type: P = Pole type, S = bracket type
L	-	Light source type: LED
b	-	Light source power [W]: 30, 40, 50, 60, 80
c	-	Rated voltage: blanc means high voltage, L = low voltage
d	-	Beam angle: 80°, 200°

Electrical Data:

The relation between model type, rated power and voltage, ambient temperature and temperature class, is given in the table below.

Model	Rated power	Rated voltage	Installation	Beam angle	Ambient temperature/ temperature group	
					Ta≤40℃	Ta≤55℃
BC9302P-L30 BC9302S-L30	30 W	100 … 240 Vac 120 … 270 Vac	P-Pole type S-Bracket type	80° 200°	T6	T6
BC9302P-L40 BC9302S-L40	40 W	100 … 240 Vac 120 … 270 Vac		80° 200°	T6	T6
BC9302P-L50 BC9302S-L50	50 W	100 … 240 Vac 120 … 270 Vac		80° 200°	T6	T6
BC9302P-L60 BC9302S-L60	60 W	100 … 240 Vac 120 … 270 Vac		80° 200°	T6	T5
BC9302P-L80 BC9302S-L80	80 W	200 ... 240 Vac		200°	T6	T5
BC9302P-L30-L BC9302S-L30-L	30 W	20 … 38 Vac 20 … 48 Vdc		80° 200°	T6	T6
BC9302P-L40-L BC9302S-L40-L	40 W	20 … 38 Vac 20 … 48 Vdc		80° 200°	T6	T6
BC9302P-L50-L BC9302S-L50-L	50 W	20 … 38 Vac 20 … 48 Vdc		80° 200°	T6	T6
BC9302P-L60-L BC9302S-L60-L	60 W	20 … 38 Vac 20 … 48 Vdc		80° 200°	T6	T5

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Descriptive Documents:
Detailed in the Test Report Cover document. (ref. CQST/ExTR1902G001)

Mounting Instructions:
See manufacturer's instructions.

Installation Instructions:
See manufacturer's instructions.

Routine tests:
Detailed in the Test Report Cover document. (ref. CQST/ExTR1902G001).

Additional Information:
The enclosures of the LED Explosion-proof Light model BC9302 successfully passed the tests for the Ingress Protection Level IP66 to IEC 60529.

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