



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 19 ATEX 0035 X Issue 0**

[4] Equipment : **LED Explosion-proof Light model BC9302**

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

[6] Address : **No.35, Qingjiang Road, Technology Park, High-Tech District, Wenzhou City,  
Zhejiang Province, CN-325011, 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. **18079**.

[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 60079-28:2015**

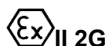
**EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

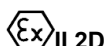
[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for use specified in the schedule to this certificate.

[11] This EU – Type examination certificate relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process 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 opis IIC T5/T6 Gb**



**II 2D Ex tb opis IIIC T95°C/T80°C Db**

**Certification officer** : Hou Yandong

**Signature:**

**Date of issue** : 2019-11-14

**Certification Body:** CNEX-Global B.V., Utrechtseweg 310-B38, 6812 AR Arnhem, The Netherlands

This certificate may only be reproduced in its entirety and without any change, including schedule

# SCHEDULE

## EU-TYPE EXAMINATION CERTIFICATE No.

### CNEX 19 ATEX 0035 X Issue 0

Report: 18079



[15] Description of equipment:

The LED Explosion-proof Light 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.

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°C	Ta≤55°C
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

[13]

[14]

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Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

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

[16] Descriptive Documents:

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

[17] Specific Conditions for Use:

The ambient temperature range is limited to -40 °C... +55 °C.

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 4 of EN 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 a suitable ATEX certified enclosure.

If the product is delivered with stopping plugs, ATEX 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.

[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 LED Explosion-proof Light model BC9302 successfully passed the tests for the Ingress Protection Level IP66 to EN 60529.