

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2]

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU – Annex III

[3]

Certificate Number: **EPT 17 ATEX 2632** issue 0

[4]

Equipment: **LED Explosion Proof Light**

Series:

BC9309

[5]

Manufacturer: **ZHEJIANG TORMIN ELECTRICAL CO., LTD**

[6]

Address: **No.35 Qingjiang Road, High-tech District, Wenzhou, Zhejiang, China**

[7]

This equipment and its accepted variations are specified in the annex to this Certificate.

[8]

Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential Report N°EPT.17.REL.02/55297

[9]

Compliance with the essential health and safety is assured through the verification of them and by compliance with the standard:

EN60079-0:2012+A11:2013; EN60079-15:2010; EN60079-31:2014

[10]

If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11]

This EU -TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12]

The equipment shall include the sign  and the following string:

II 3 G Ex nR IIC T4...T3 Gc

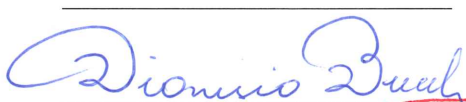
II 2 D Ex tb IIIC T130°C...T195°C Db


-50°C ≤ Ta ≤ +40°C/55°C

Place and date of issue:

Torino, 2017-06-08




Dionisio Bucchieri
Directive Responsible


Paolo Trisoglio
Managing Director



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PRD N° 119B
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This Certificate has 7 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

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[15] Equipment description

BC9309-Series LED Explosion-proof lights can be used where IIC gases, vapors and air may exist with temperature class T3/T4, or in hazardous areas where explosive dust may exist with temperature class T195°C/T130°C.

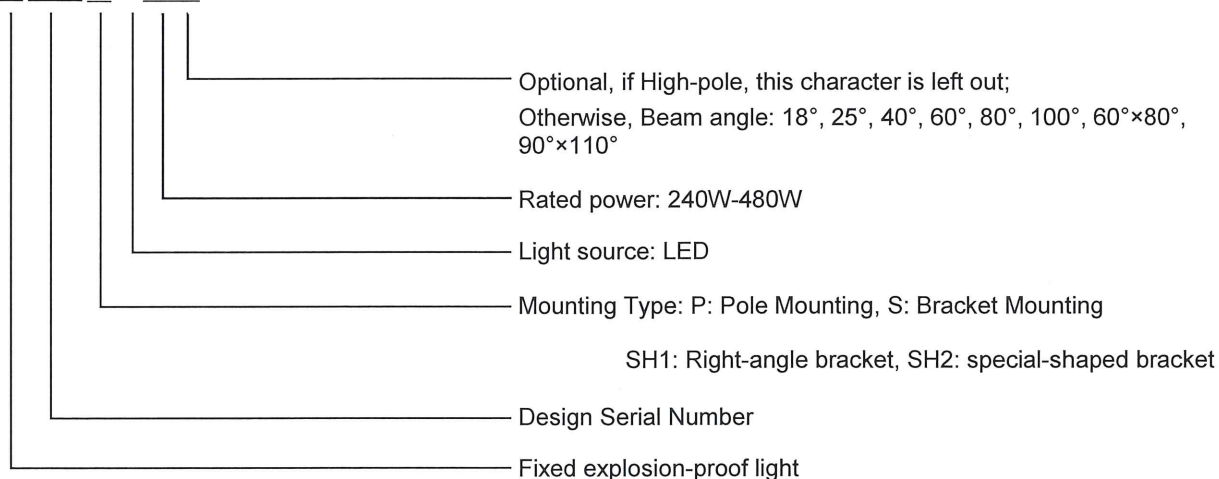
The enclosures are made of cast aluminium alloy and light transmitting part is made of high boron silicon toughened glass whose thickness is more than 8mm.

The lighting fixture can be provided with different optical lens and mounting accessories depending on its use. ATEX certified cable glands and blanking elements with Ex marking no less than Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db can be installed on the equipment.

Equipment has an ingress protection IP66 and is complete of both internal and external earthing connections.

Catalogue Number Logic

BC 9309 □ - L □ - □



(Note: for designation details, refer to model and technical parameters below)


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Model and Technical Parameters

No.	Type	Rated power	Rated voltage	Beam angle	Ambient temperature/ Temperature group	
					Ta ≤ 40°C	Ta ≤ 55°C
1	BC9309S-L240	240W	100~277V AC 50Hz/60Hz	18°, 25°, 40°, 60°, 80°, 100°, 60°X80°, 90°X110°	T4	T3
2	BC9309S-L300	300W			T4	T3
3	BC9309S-L360	360W			-	T3
4	BC9309S-L400	400W			-	T3
5	BC9309S-L480	480W			-	T3
6	BC9309P-L240	240W			T4	T3
7	BC9309P-L300	300W			T4	T3
8	BC9309P-L360	360W			-	T3
9	BC9309P-L400	400W			-	T3
10	BC9309P-L480	480W			-	T3
11	BC9309SH1/2-L240	240W		High-pole	T4	T3
12	BC9309SH1/2-L300	300W			T4	T3
13	BC9309SH1/2-L360	360W			T4	T3
14	BC9309SH1/2-L400	400W			T4	T3


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**Warning label**

WARNING – DO NOT OPEN WHEN ENERGIZED

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

WARNING – AFTER DE-ENERGIZING, DELAY 15 MINUTES BEFORE OPENING

Routine tests

None

[16] **Assessment Report n°EPT.17.REL.02/55297**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition for a safe use**

None

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.




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[19] Descriptive documents

The equipment objects of this Certificate are described by the following documents.

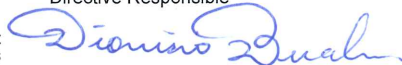
Scheduled documents are indicated with the symbol "✓". They cannot be modified without the explicit authorization of the Notified Body.

Title	Drawing No.	Rev.	Date	Scheduled
Product description	JY20161205001	1.0	05/12/2016	✓
Instruction manual	JY20161205002	1.0	05/12/2016	✓
Technical drawings				
Bill of material	BC9309-MX-01	1.0	20/12/2016	✓
Bill of material	BC9309-MX-02	1.0	20/12/2016	✓
General assembly drawing (240-480W)	BC9309P/S-00.1-5	1.0	20/12/2016	✓
General assembly drawing	BC9309 -00.1-5	1.0	20/12/2016	✓
Configuration table	BC9309 -PJ	1.0	20/12/2016	✓
Nameplate	BC9309 -01	1.0	20/12/2016	✓
Protection tube sets	BC9309 -02	1.0	20/12/2016	✓
Sealing ring for power supply box	BC9309 -03	1.0	20/12/2016	✓
Shell of power supply box	ZY8606-01	1.0	20/12/2016	✓
Cover of power supply box	ZY8606-02	1.0	20/12/2016	✓
Cover for wiring terminal	ZY8606-03	1.0	20/12/2016	✓
Bracket (right-angle)	ZY8606-05-01	1.0	20/12/2016	✓
Bracket (irregular)	ZY8606-05-02	1.0	20/12/2016	✓
Positioning plate	ZY8606-06	1.0	20/12/2016	✓
Main housing	BC9307 -03	1.0	20/12/2016	✓
Stopping plug	BC5401-25	1.0	15/06/2015	-
Lighting transmitting part (60°)	BC9309 -01-02	1.0	20/12/2015	✓
Lighting transmitting part (80°)	BC9309 -01-03	1.0	20/12/2015	✓
Lighting transmitting part (100°)	BC9309 -01-04	1.0	20/12/2015	✓
Lighting transmitting part (90X100°)	BC9309 -01-05	1.0	20/12/2015	✓
Lighting transmitting part (60X80°)	BC9309 -01-06	1.0	20/12/2015	✓
Lighting transmitting part (40°)	BC9309 -01-07	1.0	20/12/2015	✓
Rubber mat	BC9305-02	1.0	20/12/2015	✓
Flameproof pipe	BC9305-06-01	1.0	20/12/2015	✓


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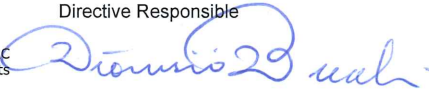
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Sealing ring A	BC9305-06-02	1.0	20/12/2015	✓
Sealing ring B	BC9305-06-03	1.0	20/12/2015	✓
Clamping ring of lens	BC9305-07-01	1.0	20/12/2015	✓
Front cover (40°, 60°, 80°, 100°, 200°)	BC9305-08-01	1.0	20/12/2015	✓
Front cover (90°X110°)	BC9305-08-02	1.0	20/12/2015	✓
Front cover (60°X80°)	BC9305-08-03	1.0	20/12/2015	✓
Hexagon socket head cap screws M6X16	BC9305-16	1.0	20/12/2015	✓
Front cover warning signs	BC9305-19	1.0	20/12/2015	✓
Anti-off screws M3X12	BC9306-07	1.0	20/12/2015	✓
Terminal mounting plate	BC9306-08	1.0	20/12/2015	✓
General assembly drawing (240-480W)	BC9309P/S-00.6-10	1.0	20/12/2016	✓
Light transmitting part	BC9306-10	1.0	20/12/2016	✓
Rubber mat	BC9306-11	1.0	20/12/2016	✓
Front seat cover (spot)	BC9306-12	1.0	20/12/2015	✓
Front cover (spot)	BC9306-13	1.0	20/12/2015	✓
Reflector cup	BC9306-14	1.0	20/12/2015	✓
General assembly drawing	BC9309SH-00.11-14	1.0	20/12/2016	✓
Configuration table	BC9309-PJ-1	1.0	20/12/2016	✓
General assembly drawing (240-400W)	BC9309SH2-00.11-14	1.0	20/12/2016	✓
Pressing plate for capacitor	DGS70-127B(E)-05	1.0	20/12/2016	✓
Light transmitting parts	ZY8606-07	1.0	20/12/2016	✓
Lighting transmitting parts sealing ring (high-pole)	ZY8606-08	1.0	20/12/2016	✓
Front cover (high-pole)	ZY8606-09	1.0	20/12/2016	✓


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[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **History**

This certificate is at its first issue.



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End of Certificate

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