



(1) **EU-Type Examination Certificate**

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Certificate number: **SEV 19 ATEX 0165 X**

(4) Product: LED Explosion Proof Light
Types: BC5402A Series and BC5402C Series

(5) Manufacturer: **ZHEJIANG TORMIN ELECTRICAL CO., LTD**

(6) Address: No.35 Qingjiang Road, High-tech District, Wenzhou, Zhejiang, CHINA

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products 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 19-Ex-0151.X01

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:12+A11:13

EN 60079-18:15

EN60079-28:15

EN60079-31:14

EN 60079-7: 15

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 product is subjected to special conditions for safe use specified in the schedule to this certificate.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 2G Ex eb mb op is IIC T* Gb

II 2D Ex tb op is IIIC T* Db

Eurofins Electrosuisse Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification

(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 19 ATEX 0165 X

(15) **Description of product**

The BC5402A series and BC5402C series explosion proof light are mainly composed of a shell body and a plastic lampshade: for A 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 C 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.

Rating(s)

A series:

120-240 V AC 50/60 Hz, 20 W/30 W/40 W/50 W/60 W

200-240 V AC 50/60 Hz, 80 W

C series:

200-240 V AC 50/60 Hz, 20 W/30 W/40 W/50 W/60 W/80 W/100 W

Classification of installation and use:

Stationary

Ingress protection:

IP66/67

Rated ambient temperature range (°C):

-40 °C-+55 °C

Rated ambient temperature range (°C) for Ex Components:

N / A

Type specifications:
BC5402 A series:

Model	Rated power	Enclosure length	Input voltage	Ambient temperatures	Temp. class Gas	Temp. class Dust
BC5402A-L20	20 W	700 mm	120-240 V AC, 50/60 Hz	-40 °C ~ +55 °C	T5	T95 °C
BC5402A-L30	30 W				T5	T95 °C
BC5402A-L40	40 W				T5	T95 °C
BC5402A-L50	50 W	1150 mm	200-240 V AC, 50/60 Hz		T5	T95 °C
BC5402A-L60	60 W				T4	T130 °C
BC5402A-L80	80 W				T4	T130 °C

Model	Rated power	Enclosure length	Input voltage	Ambient temperatures	Temp. class Gas	Temp. class Dust
BC5402A-L20	20 W	700 mm	120-240 V AC, 50/60 Hz	-40 °C ~ +40 °C	T6	T80 °C
BC5402A-L30	30 W				T6	T80 °C
BC5402A-L40	40 W				T6	T80 °C
BC5402A-L50	50 W	1150 mm	T6		T80 °C	
BC5402A-L60	60 W		T6		T80 °C	
BC5402A-L80	80 W		200-240 V AC, 50/60 Hz		T4	T130 °C

BC5402 C series:

Model	Rated power	Enclosure length	Input voltage	Ambient temperatures	Temp. class Gas	Temp. class Dust
BC5402C-L20	20 W	650 mm	200-240 V AC, 50/60 Hz	-40 °C~ +55 °C	T5	T95 °C
BC5402C-L30	30 W				T5	T95 °C
BC5402C-L40	40 W				T5	T95 °C
BC5402C-L50	50 W				T5	T95 °C
BC5402C-L60	60 W	1100 mm			T4	T130 °C
BC5402C-L80	80 W				T4	T130 °C
BC5402C-L100	100 W				T4	T130 °C

Model	Rated power	Enclosure length	Input voltage	Ambient temperatures	Temp. class Gas	Temp. class Dust
BC5402C-L20	20 W	650 mm	200-240 V AC, 50/60 Hz	-40 °C~ +40 °C	T6	T80 °C
BC5402C-L30	30 W				T6	T80 °C
BC5402C-L40	40 W				T6	T80 °C
BC5402C-L50	50 W				T6	T80 °C
BC5402C-L60	60 W	1100 mm			T6	T80 °C
BC5402C-L80	80 W				T6	T80 °C
BC5402C-L100	100 W				T4	T130 °C

Warning labels

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

WARNING – DO NOT OPEN WHEN ENERGISED

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

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

(16) **Report number** 19-Ex-0151.X01

(17) **Specific conditions of use**

POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

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

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report “Manufacturer’s Documents”