



(1) **Conformity Statement**

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

(3) Certificate number: **SEV 18 ATEX 0152**

(4) Product: LED Explosion Proof Light
BC5402 B-, D-series

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

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

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Eurofins certifies that this product 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 Directive 2014/34/EU of the European parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. 18-Ex-0146.01

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

EN 60079-0:2012 + A11:2013

EN 60079-15:2010

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

(11) This Conformity Statement relates only to the design and construction of the specified product and not to specific items of product subsequently manufactured.

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



**II 3G Ex nR IIC T6 Gc
II 3D Ex tc IIIC T80°C Dc**

Eurofins Electrosuisse Product Testing AG


Jürg Rellstab

Product Certification

(13)

Appendix

(14)

Conformity Statement no. SEV 18 ATEX 0152

(15) **Description of product**

The BC5402 B, D explosion proof light is mainly composed of a shell body and a plastic lampshade: for B 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 emergency mode this side cover is substituted with a wiring cover); for D 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, and serve as test port during inspection or maintenance. Li rechargeable battery-packages are provided for emergency mode. The lampshade is cemented with DC7091 glue to the shell body. The restricted-breathing protection is guaranteed by cementing in the lampshade and sealing rings in the enclosure or cover grooves. Both external and internal earthings are provided.

The degree of protection of the enclosure is IP66/67, according to IEC 60079-0 and IEC 60529.

Ratings:
B series:

100~240V AC 50/60Hz, 20W/40W/50W/60W/80W; 15W/25W (emergency battery package)

D series:

220~240V AC 50/60Hz, 20W/40W/50W/60W/80W/100W; 3W/15W (emergency battery package)

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

Routine tests:

The manufacturer shall also carry out any routine tests required by any of the standards listed in IEC 60079-0 Clause 1 which were used for the examination and testing of the equipment.

(16) **Report number** 18-Ex-0146.01

(17) **Specific conditions of use**

none

(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**

| Number | Sheet | Issue date | Description |
|--|-------|------------|-------------|
| See test report "Manufacturer's Documents" | | | |