

(1) EU-TYPE EXAMINATION CERTIFICATE



(2) Equipment and Protective Systems intended for use in
Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

TÜV 19 ATEX 8442 X

Issue: 01

(4) Equipment: **PORTABLE EXPLOSION-PROOF SEARCHLIGHT**
Model: BW7101A/B

(5) Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**

(6) Address: **No. 2, Gangteng Road, Yongxing Subdistrict, Longwan District, Wenzhou City,
Zhejiang Province 325024
China.**

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

(8) The Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC / Ex8442.01 / 19.

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018

EN 60079-1: 2014

EN 60079-11: 2012

EN 60079-31: 2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

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



II 2 G
II 2 D

Ex db ib IIC T6 Gb
Ex ib tb IIIC T80°C Db IP68

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz


Yang Wang

Cologne, 2025-09-24

This EU-Type Examination Certificate without signature and stamp shall not be valid and may be circulated only without alteration.
Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
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(13)

(14)

Annex to

EU-Type Examination Certificate

TÜV 19 ATEX 8442 X

Issue: 01

(15) Description of Equipment

Equipment and type:

PORTABLE EXPLOSION-PROOF SEARCHLIGHT
Model: BW7101A/B

General product information:

Description

BW7101A/B PORTABLE EXPLOSION-PROOF SEARCHLIGHT (hereinafter referred to as the searchlight) is an explosion-proof hand light. The search light used an aluminium enclosure with glass for light transmitting. The type of protection of the search light includes "db", "ib" and 'tb'.

The search light certified for gas group IIA, IIB and IIC, and temperature class T6. It can be used for flammable gas or vapor and air to form explosive mixture zone 1, zone 2 area, and zone 21 and 22 areas with combustible dust and may occur simultaneously or respectively explosive gas and combustible powder dust in hazardous area.

There is a flameproof enclosure with type of protection "db" or "tb" for the equipment, and there is a electrical switch in a IP20 enclosure with type of protection "ib". There is safety barrier circuit in the flameproof enclosure. A bushing used on the enclosure connect the safety barrier circuit and the electrical switch.

The Search light can be used in ambient temperature: -20°C ~ +55°C
Degree of Protection: IP68

Type code:

BW	☐	A/B

Battery number: A: 4 batteries series B: 6 batteries series
Design code: 7101
Portable explosion proof lamp

Details of Change:

Update the manufacturer's address.

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Technical data:

Electrical data:

Parameter type	Parameter values
Charge voltage (V)	DC26.5 (6 series) DC17.5 (4 series)
Battery capacity(mAh)	2600
Battery voltage(V)	DC14.8 (4 batteries series) DC22.2 (6 batteries series)
Rated power(W)	9(3×3)
Working time (hours)	>6
Charging time (hours)	>6
Ingress Protection level	IP68 (2m water depth)
Dimensions (mm)	Φ67×140
Weight (kg)	0.9

Environmental data:

Ambient temperature range: -20°C ~ +55°C

Atmosphere pressure: 80kPa ~ 110kPa

Relative humidity: no more than 95% (+25°C)

(16) Test report No.: **GC / Ex8442.01 / 19**

(17) Special Conditions for safe use

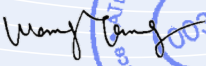
1. Do not charge the battery in hazardous location.
2. The flameproof joints are not intended to be repaired.
3. Read the instruction before use.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2025-09-24


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