

# (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: 00

- (4) Equipment: **PORTABLE EXPLOSION-PROOF SEARCHLIGHT**  
**Model: BW7101A/B**
- (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 product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland 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 26<sup>th</sup> 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/Ex8442.00/19
- (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 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 Ex db ib IIC T6 Gb**



**II 2 D Ex ib tb IIIC T80°C Db IP68**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-09-16



This EU-Type Examination Certificate without signature and stamp shall not be valid.  
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the  
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13)

Annex

(14)

## EU Type Examination Certificate

### TÜV 19 ATEX 8442 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

PORTABLE EXPLOSION-PROOF SEARCHLIGHT  
Model: BW7101A/B

15.2 Description / Details of change

Description

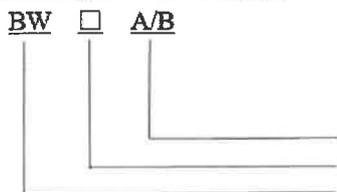
BW7101A/B PORTABLE EXPLOSION-PROOF SEARCHLIGHT (hereinafter referred to as the searchlight) is an explosion-proof hand light. The search light used an aluminium enclosure with glass for light transmitting. The type of protection of the search light includes "db", "ib" and 'tb'.

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

Catalogue number logic



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

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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/Ex8442.00/19

(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) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-09-16



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