

[1]

**EU-TYPE EXAMINATION CERTIFICATE**

[2]

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

[3]

Certificate Number:

**EPT 16 ATEX 2558 X**

Issue 0

[4]

Equipment:

**Explosion-proof emergency exit light fittings**

Series:

**BAYD85-□□ Series**

[5]

Manufacturer:

**WAROM TECHNOLOGY INCORPORATED COMPANY**

[6]

Address:

**NO.555 BAOQIAN ROAD, JIADING DISTRICT, SHANGHAI, 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.16.REL.01/54940

[9]

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

**EN60079-0:2012+A11:2013; EN60079-1:2007; 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 2 G Ex d IIB T6 Gb  
II 2 D Ex tb IIIC T80°C Db**

**-20°C ≤ Ta ≤ +55°C**

Place and date of issue:

**Torino, 2016-12-22**

Dionisio Bucchieri  
Directive Responsible

Paolo Trisoglio  
Managing Director



**SGQ N° 133A  
PRD N° 119B**  
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This Certificate has 6 pages and is reproducible only as entirely. Conditions of validity are reported below.





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## ANNEX

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## [15] Equipment description

The BAYD85 series explosion-proof emergency exit light fittings can be used in Zone 1 and Zone 2 hazardous areas where IIA and IIB explosive gases or vapors can be present, or Zone 21 and Zone 22 of combustible dust atmospheres.

They are usually installed near emergency exit for both normal and emergency indication purposes.

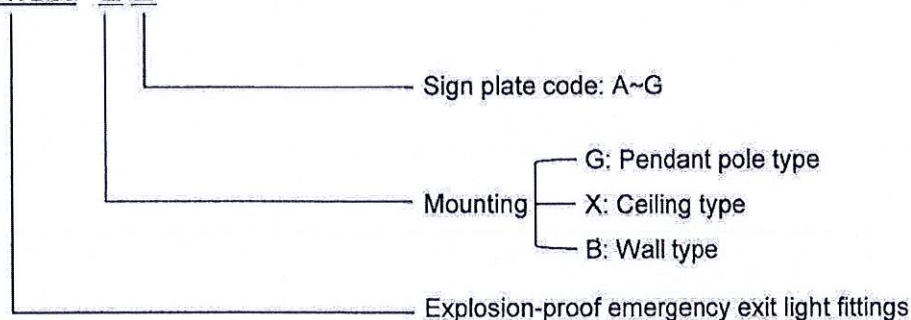
The illumination source is made of LEDs.

Its main structure is composed of shell body (bracket, ceiling, pendant), cover, overhaul cover, glass cover, luminescence board in enclosure and emergency controller. Metallic material used for enclosures, whose magnesium titanium zirconium composition is not greater than 7.5% is die-casting aluminum; wall thickness is not less than 4 mm. Glass cover is made of boron silicon. The terminal blocks inside the lamp used for connections are designed for wires with a cross sectional area of 0.5mm<sup>2</sup>.

The degree of protection of the enclosure is IP66 according to EN 60079-0 and EN 60529.

## Catalogue Number Logic

BAYD85 - □ □



## Technical parameters

Table 1

Illuminating source	Rated power/ (W)	Charging time/ (hr)	Emergency operation time/ (min)	Battery capacity/ (mAh)
LED	4	16	180	800



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**Table 2**

Operating voltage & frequency	Cable O.D. (Φ, mm)	Entry thread type	IP protection
100V~300V AC 50/60Hz	10~14	2-M25×1.5 or 2-NPT 3/4"	IP66

**Warning label**

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

**Routine tests**

The manufacturer shall carry out the routine tests prescribed at clause 16 of EN60079-1:2007 at a pressure of 1.0 MPa for light source chamber and terminal chamber.

**[16] Assessment Report n° EPT.16.REL.01/54940**

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**

Use fasteners with yield stress  $\geq 450$  MPa

The flameproof joints must not be repaired.

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

Assured by compliance with harmonized standards.

**[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.

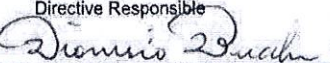
Title	Drawing No.	Rev.	Date	Scheduled
Illustration about the certification of BAYD85 series explosion-proof emergency exit light fittings	0HRW 110 146	0	18/06/2015	✓
Manual	0HRW 110 147	0	18/06/2015	✓
Drawing list	1HRW 000 055TM	0	18/06/2015	✓



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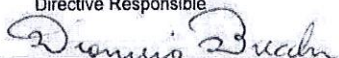
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Components list	1HRW 000 055MX	0	18/06/2015	✓
Emergency control device principle drawing	0HRW 110 052	0	18/06/2015	✓
General assembly of BAYD85 series explosion-proof emergency exit light fittings	1HRW 000 055	0	18/06/2015	✓
Nameplate	4HRW 110 198	0	18/06/20 5	✓
Button assembly	1HRW 010 032	0	18/06/2015	✓
Terminals assembly	WM5HR 516 202	0	18/06/2015	✓
Screw assembly	WM5HR 906 001	0	18/06/2015	✓
Shell body	1HRW 020 054	0	18/06/2015	✓
Cover	1HRW 050 031	0	18/06/2015	✓
Overhaul cover	1HRW 050 032	0	18/06/ 015	✓
Mounting board	1HRW 080 049	0	18/06/2015	✓
Mounting frame	1HRW 090 204	0	18/06/2015	✓
Fixed plate	1HRW 090 205	0	18/06/2015	✓
Push rod	1HRW 090 206	0	18/06/2015	✓
Gasket sheath	1HRW 090 207	0	18/06/2015	✓
Glass cover	1HRW 100 094	0	18/06/2015	✓
Silicone rubber gasket	1HRW 100 098	0	18/06/2015	✓
Luminescence board	1HRW 100 099	0	18/06/2015	✓
LED indicator light	1HRW 100 100	0	18/06/2015	✓
Emergency control device	1HRW 100 101	0	18/06/2015	✓
O sealing ring (VMQ)	1HRW 100 121	0	18/06/2015	✓
Earthing bolt	2HRW 090 179.2	0	18/06/2015	✓
Label	4HRW 110 199	0	18/06/2015	✓
Terminals base	WM5HR 516 201	0	18/06/2015	✓
Mounting feet	WM8HR 100 225	0	18/06/2015	✓
Spring	WM8HR 282 276	0	18/06/2015	✓
Conducting strip	WM8HR 588 188	0	18/06/2015	✓
Screw	WM8HR 940 222	0	18/06/2015	✓
Pressure pad	WM8HR 950 217	0	18/06/2015	✓



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## [20] Terms and conditions

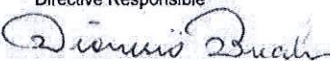
The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

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.

**ACCREDIA**  
ENTE ITALIANO DI ACCREDITAMENTOSGQ N° 133A  
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End of Certificate

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