



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx TPS 18.0011X

Issue No: 0

Certificate history:

Issue No. 0 (2018-10-25)

Status: **Current**

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Date of Issue: **2018-10-25**

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
555 Baoqian Road, Jiading, Shanghai  
China

Equipment: **Explosion-proof LED Tank Inspection Vessel Light Fittings - Type: BAK85 Series**

*Optional accessory:*

Type of Protection: **"db" "op is" "tb"**

Marking:

Ex db op is IIC T6 Gb

Ex tb op is IIIC T80°C Db

*Approved for issue on behalf of the IECEx  
Certification Body:*

Ing. Kristof De Gersem, MSc.

*Position:*

Technical Certifier

*Signature:  
(for printed version)*

*Date:*

2018-10-25

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**TÜV SÜD Product Service GmbH**  
Ridlerstr. 65  
D-80339 Munich  
Germany



Product Service





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Manufacturer: WAROM TECHNOLOGY INCORPORATED COMPANY  
555 Baoqian Road, Jiading, Shanghai  
China

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

### Test Report:

GB/CML/ExTR18.0233/00

### Quality Assessment Report:

CN/CQM/QAR07.0003/07

GB/CML/QAR18.0003/00





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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

BAK85 Series Explosion-proof LED Tank Inspection Vessel Light Fittings are used as lighting for use in Zone 1, Zone 2, Zone 21 and Zone 22. The cover and enclosure is made of ZL102 (ENAC-AISI12(b)), the light-transmitting part is made of glass. It includes a power chamber where the driver and terminals are fixed and a lamp chamber where the LED is fixed. A cable gland on the enclosure is used for power supply connection.

### Model designation:

BAK 85 - 9 / \* \*

1 2 3 4 5

1: Explosion-proof LED Tank Inspection Vessel Light Fittings

2: Design No.

3: Lamp power

4: Support type

A, B

5: Button (Optional)

D

### Technical data:

Power supply: 100...277VAC, 50/60Hz

100...250VDC

12...36VAC, 50/60HZ

12...48VDC

Ambient temperature: -40°C ≤ Ta ≤ 55°C

Degree of protection by enclosure: IP66/IP67 (tested according to EN/IEC 60079-0)

### Warning label:

WARNING-DO NOT OPEN WHEN ENERGIZED

WARNING-AFTER DE-ENERGIZING, DELAY 10 MINUTES BEFORE OPENING.

### Routine tests:

The manufacturer shall carry out a static overpressure test on the lamp chamber at 8.6 bar and on the power chamber at 10.6 bar for at least 10 seconds without any permanent deformation or damage invalidating the type of protection occurring.



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**SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. Use fasteners with yield stress not less than 450MPa, A2-70.
  2. The cable entry is certificated together with the light fittings. The manufacturer has to be consulted in case of damage or replacement.
  3. Repairs of the flameproof joints may only be made by the manufacturer or on behalf of the manufacturer and on his own responsibility.
- Repair in compliance with the values EN/IEC 60079-1 is not accepted.