



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx INE 16.0017X**

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Certificate history:

[Issue 0 \(2016-04-13\)](#)

Status: **Current**

Issue No: 1

Date of Issue: 2019-12-02

Applicant: **Zhejiang Tormin Electrical Co., Ltd.**
No. 35, Qingjiang Road, Technology park
High-tech District
Wenzhou City, Zhejiang Province
China

Equipment: **Explosion Protected Junction Box type BHD...**

Optional accessory:

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

Marking: Ex db IIC T6 Gb
Ex tb III C T80°C Db IP66
Tamb : -50°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUÉIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France





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Manufacturer: **Zhejiang Tormin Electrical Co., Ltd.**
No. 35, Qingjiang Road, Technology park
High-tech District
Wenzhou City, Zhejiang Province
China

Additional
manufacturing
locations:

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 equipment 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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

[CN/CQM/ExTR15.0078/00](#)

[FR/INE/ExTR16.0017/00](#)

[FR/INE/ExTR16.0017/01](#)

Quality Assessment Report:

[CN/CNE/QAR19.0002/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Flameproof junction boxes intended to be installed in hazardous area, zone 1 or zone 2, Gas Group IIA, IIB or IIC or zone 21 or zone 22, Dust Group IIIA, IIIB or IIIC. The flameproof chamber consists of a main enclosure and a threaded top cover. There are three different models:

- Model BHD01A junction box has three cable glands with sealing rings, one of them is provided with adapter;
- Model BHD01B junction box has three cable entries, two of them are provided with stopping plug with protection level Ex db IIC Gb/Ex tb III C Db, the other is provided with adapter and cable gland;
- Model BHD02 junction box has four cable entries, all cable entries are provided with stopping plug with protection level Ex db IIC Gb / Ex tb III C Db.

This equipment gets the degree of protection IP66 according to IEC 60529 standard.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The effective engaged length and engaged threads of the threaded flameproof joints are more than the values given in tables of IEC 60079-1 standard. Repair of the threaded joints must be made in compliance with the specification provided by the manufacturer.

- For the risk from electrostatic discharge, the user will have to read the instructions.

The other conditions are stipulated in the instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change regarding Issue 01:

Modification of the QAR number to CN/CNE/QAR19.0002; no other modification.

Annex:

[IECEx INE 16.0017X-01_Annex.pdf](#)



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Annex: IECEx INE 16.0017X-01_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Rated Voltage: $\leq 500V$ (50/60Hz)

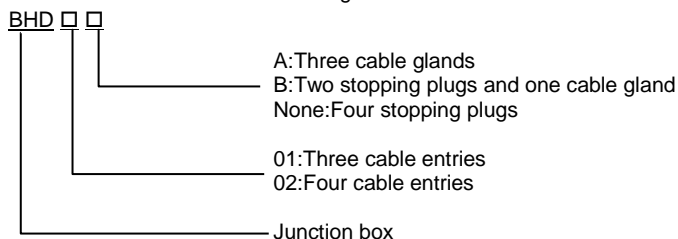
Rated Current: 20A

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- Zhejiang Tormin Electrical CO., LTD.
- China, Zhejiang,
- BHD □ □ *
- IECEx INE 16.0017X
- (Serial number)
- Ex db IIC T6 Gb
- Ex tb IIIC T80°C Db IP66
- Tamb : -50°C to +60°C
- Cable entries: See instructions
- **WARNING:**
 - DO NOT OPEN WHEN ENERGIZED
 - POTENTIAL ELECTROSTATIC HAZARD (SEE INSTRUCTION)

(*) The type is completed by numbers and/or letters in accordance with the manufacturing variations.



Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

In accordance with § 16.1 of the IEC 60079-1 standard, each piece of equipment defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 seconds under 12 bar.