



CNEX-GLOBAL

# [1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 2014/34/EU**



[3] EU-Type Examination Certificate Number: **CNEX 23 ATEX 0011 X Issue 0**

[4] Equipment : **Explosion Protected Junction Box model BHD.-.**

[5] Manufacturer : **Zhejiang Tormin Electrical Co., Ltd.**

[6] Address : **No.2, Gangteng Road, Yongxing Subdistrict, Longwan District, Wenzhou City,  
Zhejiang Province, P.R. China**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CNEX-Global B.V., Notified Body number 2614, in accordance with Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system 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 atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **P23025IA-CS**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for use specified in the schedule to this certificate.

[11] This EU – Type examination certificate relates only to the design of the specified equipment or protective system. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 2G Ex db IIC T6 Gb or II 2D Ex tb IIIC T80°C Db

**Certification officer** : Hou Yandong

**Date of issue** : 2024-01-05

**Signature:**

**Certification Body:** CNEX-Global B.V., Utrechtseweg 310-B42, 6812 AR Arnhem, The Netherlands

This certificate may only be reproduced in its entirety and without any change, including schedule

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# SCHEDULE

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[15] Description of equipment:

The Explosion Protected Junction Box model BHD.-. is constructed in explosion protection type flameproof enclosure “db” for Gas environments, and in explosion protection type protection by enclosure “tb” for Dust environments. Connection terminals are mounted inside the flameproof chamber. The metal enclosure parts are made of aluminum alloy 6063 with a minimum thickness of 3.0mm. The enclosure is fitted with three or four threaded (M20 × 1.5, M25 × 1.5, NPT1/2” or NPT3/4”) openings for cable glands and stopping plugs.

Nomenclature for model BHDa-b:

- BHD - Junction box
- a - Cable entry openings:
  - 01= three cable entries,
  - 02= four cable entries
- b - Cable glands/plugs:
  - A= three cable glands
  - B= two stopping plugs and one cable gland
  - None: four stopping plugs

Electrical Data for BHD.-.:

Rated voltage: 500V max.  
Rated current: 20A max.

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

Detailed in the Test Report Cover document. (P23025IA-CS).

[16] Descriptive Documents:

Detailed in the Test Report Cover document. (P23025IA-CS).

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# SCHEDULE

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[17] Specific Conditions for Use:

The ambient temperature range is limited to -50°C...+60°C.

The width of flameproof joint is more than the minimum values specified in EN 60079-1 standard. If needed, repair of the flameproof joints must only be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 4 and table 5 of EN 60079-1:2014.

If the product is delivered with integral cable glands, no other cable glands can be applied. In this case, only the cable gland parts supplied by the manufacturer shall be used.

If the product is delivered with stopping plugs, the user must apply ATEX certified cable glands, rated minimum IP66, suitable for the conditions of use and correctly installed.

[18] Essential Health and Safety Requirements:

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

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Additional Information:

The enclosures of the Explosion Protected Junction Box model BHD.-., successfully passed the tests for the Ingress Protection Level IP66 to EN 60529.