

[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU Annex III, Module B

- [3] EU – Type Examination Certificate Number ACE25ATEX042X Rev00
- [4] Product Mining Explosion-proof Low-voltage Cable Junction Box Model: BHD-250/660-8G
- [5] Manufacturer Shandong Xinsha Monorail Transport Machinery Co., Ltd
- [6] Address Hushan Road West Section, Economic Development Zone, Xintai City, Tai'an City, Shandong, 271200, P.R.China
- [7] This equipment or protective system and any acceptable variation there to are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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. EX_EXD023_25_25-1527
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 : Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-1:2014: Explosive atmospheres — Part 1: Equipment protection by flameproof enclosures 'd'
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of This certificate.
- [11] This EU – Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the equipment or protective system shall include the following:



I M2 Ex db I Mb

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Date: 31/10/2025



Advanced Consulting and Engineering

Iberia SL

Notified Body No NB3024

Matteo Marconi, CEO

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[13]

SCHEDULE

[14]

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[15] Description of equipment

1. Construction Overview

BHD-250/660-8G Mining Explosion-proof Low-voltage Cable Junction Box has one "d" chamber, the material of the enclosure is Q355D steel. The chamber includes cover and body. There is a sealing ring between cover and body, and the material of the sealing rings is nitrile rubber. There are 8-M25×1.5 cable entries and 4-M28×1.5 cable entries on the chamber for the installation of explosion-proof cable glands.

Both external and internal earthings are provided. The degree of protection of the enclosure is IP54, according to IEC 60079-0 and IEC 60529.

And the suitable application location for it as below: This Mining Explosion-proof Low-voltage Cable Junction Box is Group I equipment; for Group I protection, it is Mb;

2. Model designation:

B H D - 250 / 660 - 8 - G

"B": Junction box;

"H": Flameproof;

"D": Low voltage;

"250": Maximum working current;

"660": Rated voltage;

"8": Number of cable entry;

"G": Enclosure material: Steel;

3. Electrical parameters:

Rated voltage: AC/DC 660V;

Maximum working current: 250A;

4. Ambient temperature: -20°C ~ +40°C;

Ingress Protection class: IP54.

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[13] **SCHEDULE**

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[16] Test documents are listed in the test report nº
EX_EXD023_25_25-1527

- [17] Special conditions for safe use
1. End user shall use certified cable gland or plug suitable type of protection for final installation purpose;
 2. Use screws with yield strength $\geq 640\text{MPa}$;
 3. WARNING–DO NOT OPEN WHEN ENERGIZED;
 4. The maximum outer diameter of the cable that can be used for the M28 cable entry is $\Phi 21\text{mm}$ to $\Phi 30\text{mm}$; The maximum outer diameter of the cable that can be used for the M25 cable entry is $\Phi 11\text{mm}$ to $\Phi 15\text{mm}$;
 5. The flameproof joint surface is not allowed to be repaired.

[18] Essential Health and Safety Requirements
Are fulfilled by the harmonized standard

[19] Documents and technical datasheets:

Title	Object	Revision	Date
BHD-250/660-8G Mining Explosion-proof Low-voltage Cable Junction Box User Manual	/	V1.0	2023.8
General assembly Drawing	BHD-8G	V1.0	2025.3.02
Cover	BHD-8G-GB-01	V1.0	2025.3.13
Outlet Plate 1	BHD-8G-KT-02	V1.0	2025.3.13
Baseplate	BHD-8G-KT-03	V1.0	2025.3.02
Flange	BHD-8G-KT-04	V1.0	2025.3.15
Outlet Plate 2	BHD-8G-KT-05	V1.0	2025.3.01
Grounding Sign	BHD-8G-KT-06	V1.0	2025.3.31
Sealing Ring	BHD-8G-OR	V1.0	2025.3.06
Nameplate	BHD-8G-NP-01	V1.0	2025.3.21
Technical Document of Nitrile Rubber	CZ-03	Rev.A	2024.9.15
Technical Document of Q355D Steel	XS-02	Rev.A	2024.10.16
IECEX test report	IECEX Test report number: CN/PCET/ExTR24.0038/00	/	2025.6.6

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	Testing Laboratory: Supervision & Test Center of Ex-products of China Petroleum & Chemical Industry (PCEC)		
IECEX test report	IECEX Test report number: CN/CMExC/ExTR25.0033 Testing Laboratory: China National Quality Supervision & Test Center for Explosion-proof and Safety Products for Coal Mine (CMExC)	00	2025.9.30

The above-mentioned documents are strictly confidential and they are of only use of authorities.
A copy of the documents is saved by A.C.&E. Iberia S.L.

[20] Certificate History

Certificate Number	Rev.	Comments	Date
ACE25ATEX042X	00	First emission	31/10/2025

Date: 31/10/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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