


## [1] EU-TYPE EXAMINATION CERTIFICATE - Translation



- [2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU
- [3] EU-type examination certificate number **IBExU08ATEX1113 X** | Issue 1
- [4] Product: **Plastic terminal box**  
Type: ELAK-Ex-R
- [5] Manufacturer: eltherm production GmbH
- [6] Address: Ernst-Heinkel-Straße 6-10  
57299 Burbach  
GERMANY
- [7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the 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 the confidential test report IB-21-3-0229.
- [9] Compliance with the essential health and safety requirements has been assured by compliance with: EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 und 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 product is subject to the specific conditions of use specified in the schedule to 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 product shall include the following:

 II 2G Ex eb IIC T6 Gb

 II 2D Ex tb IIIC T85°C Db

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By order

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Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2023-02-15

[13] **Schedule**

[14] **Certificate number IBExU08ATEX1113 X | Issue 1**

[15] **Description of product**

The terminal box ELAK-Ex-R serves for the preparation of the electrical connection between type-tested heating cables and / or supply cables in gas explosive and dust explosive areas.

Technical data:

Ambient temperature range: -45 °C up to +50 °C for the terminal box or depending on the used components

Degree of protection according to EN 60529: IP65

Electrical data:

Rated voltage: up to 550 V AC

Rated current: up to 28 A

Admissible wire cross-section: up to 4 mm<sup>2</sup>

*Variations compared to the EC-Type Examination Certificate and its additions:*

The terminal box complies with the requirements of current standards.

The list of components was updated.

All technical data and parameters remain unchanged.

[16] **Test report**

The test results are recorded in the confidential test report IB-21-3-0229 of 2023-02-10.

The test documents are part of the test report and they are listed there.

*Summary of the test results*

The terminal box ELAK-Ex-R fulfils the requirements of explosion protection for equipment of Group II, Category 2G, type of protection increased safety „eb“ and Category 2D, type of protection dust ignition protection by enclosure „tb“.

[17] **Specific conditions of use**

- The ambient temperature range for the junction box is -45 °C to +50 °C.  
The ambient temperature also depends on the use of cable glands, blanking plugs and reducing glands and may vary.
- The installation of the ELAK-Ex-R with hole diameter 42 mm is only allowed with mounting post "eltherm Ex-It".
- The use of cable glands, blanking plugs and reducing glands is only allowed combined with sealing gasket / O-ring and certified for type of protection „eb“ and „tb“ EPL Gb and Db.
- The customer label made of plastic must be limited to 2,000 mm<sup>2</sup>.

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

- not applicable –

[19] **Drawings and Documents**

The documents are listed in the test report.

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