



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

[2] Components intended for use on / in an equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU09ATEX1023 U** | Issue 1

[4] Product: **Mounting Assembly**
Type: Ex-IIt

[5] Manufacturer: eltherm production GmbH

[6] Address: Ernst-Heinkel-Straße 8-10
57299 Burbach
GERMANY

[7] This product and any acceptable variation thereto is 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-21-3-0230.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-7: 2015/A1:2018 EN 60079-31:2014
except in respect of those requirements listed at item [18] of the schedule.

[10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[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 Gb ⊕ II 2D Ex tb IIIC 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, 2022-11-07

[13] **Schedule**

[14] **Certificate number IBExU09ATEX1023 U | Issue 1**

[15] **Description of product**

The Ex-It Mounting Assembly, implemented in type of protection "eb" and "tb", serves as cable entry for certified flat heating cables and sensor cables for use with separately certified terminal boxes in explosive gas and dust atmospheres. In combination with the Mounting Assembly Ex It, the intended terminal box can be mounted on a pipeline (minimum diameter 20 mm).

The Mounting Assembly consists of mounting post, threaded flange, seal, O-ring, strain relief and locknut.

Technical data:

- Permissible cables:
 - o Round cable with diameter 3 – 5 mm
 - o Flat cable, dimensions: min. 11 x 4 mm up to max. 14 x 5.5 mm
 - o Outer jacket: optional TPE (min. 0.7 mm thick) or Fluoro carbon resin (min. 0.4 mm thick)
- Degree of protection according to EN 60529: IP65
- Ambient temperature range: -20 °C up to +60 °C
- Max. service temperatures
- at the threaded flange: 120 °C
- at the seal (inside): 150 °C
- at the mounting post (pipe): 200 °C

Further details are specified in the mounting instruction as well as in the test documents, which are part of the test report.

Variations compared to the EC Type Examination Certificate and the additions thereof:

The Mounting Assembly type Ex-It complies with the requirements of current standards.

[16] **Test report**

The test results are recorded in the confidential test report IB-21-3-0230 of 2022-11-07.
The test documents are part of the test report and they are listed there.

Summary of the test results

The Mounting Assembly type Ex-It fulfils as component the requirements of explosion protection for Equipment Group II, Category 2G, type of protection increased safety „eb“ as well as of Category 2D, type of protection by enclosures „tb“.

[17] **Specific conditions of use**

- The installation of the Mounting Assembly to equipment of Category 2 must be tested and certified separately. At this, the thermal parameters have to be verified among others.
- The service temperature at the threaded flange, at the mounting post and at the seals must not exceed the allowed operating temperature for the respective material.
- At the installation of the Mounting Assembly type Ex-It it has to be guaranteed that the used cables are for fixed installation only. For round cables an additional clamping has to be provided inside the terminal box.
- The Mounting Assembly must be protected against dangerous electrostatic charges, i. e. by embedding in a minimum 20 mm thick thermal insulation and cleaning with a damp cloth only.
- Only heating conductors, which are tested and certified according to Directive 2014/34/EU, at permissible current density may be used. The specific conditions and safety instructions contained in the EU-Type Examination Certificate have to be observed.

[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:

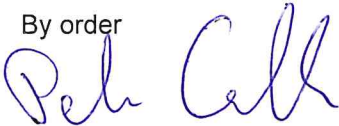
- None -

[19] Drawings and Documents

The documents are listed in the test report.

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