



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx IBE 12.0024U**

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Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2013-01-24\)](#)

Date of Issue: 2022-11-07

Applicant: **eltherm production GmbH**
Ernst-Heinkel-Str. 6-10
57299 Burbach
Germany

Ex Component: Mounting Assembly type Ex-It

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased safety "eb"; Protection by enclosure "tb"**

Marking: **Ex eb IIC Gb**
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Peter Cimalla

Position:

Deputy Head of department Certification Body

Signature:
(for printed version)

Date:
(for printed version)

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:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany





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Manufacturer: **eltherm production GmbH**
Ernst-Heinkel-Str. 6-10
57299 Burbach
Germany

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 component 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

DE/IBE/ExTR12.0023/00

DE/IBE/ExTR12.0023/01

Quality Assessment Report:

FR/INE/QAR12.0007/07



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Ex Component(s) covered by this certificate is described below:

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:

- | | |
|-----------------------------|---|
| - Round cable with diameter | 3 ... 5 mm |
| - Flat cable, dimensions | min. 11 x 4 mm up to max. 14 x 5.5 mm |
| - Outer jacket | optional TPE (min. 0.7 mm thick) or
Fluorocarbon resin (min. 0.4 mm thick) |

Degree of ingress protection acc. to IEC 60529

IP 65

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 |

SCHEDULE OF LIMITATIONS:

The installation of the Mounting Assembly to equipment 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 at permissible current density may be used. The specific conditions and safety instructions contained in the certificate have to be observed.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

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