



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

Certificate No.:	IECEx IBE 16.0001X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2016-01-13)
Date of Issue:	2023-02-15		
Applicant:	eltherm production GmbH Ernst-Heinkel-Straße 6-10 57299 Burbach Germany		
Equipment:	Ex-Junction Box ELAK-Ex-R		
Optional accessory:			
Type of Protection:	Equipment protection by increased safety “e” and Equipment dust ignition protection by enclosure “t”		
Marking:	Ex eb IIC T6 Gb Ex tb IIIC T85°C 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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Issue No: 1

Manufacturer: **eltherm production GmbH**
Ernst-Heinkel-Straße 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 equipment 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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[DE/IBE/ExTR15.0021/00](#)

[DE/IBE/ExTR15.0021/01](#)

Quality Assessment Report:

[FR/INE/QAR12.0007/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 in dependence on the used components)
Rated voltage:	up to 550 V AC
Rated current:	up to 28 A
Admissible wire cross-section:	up to 4 mm ²

SPECIFIC CONDITIONS OF USE: YES as shown below:

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“ with EPL Gb and Db.

The customer label made of plastic must be limited to 2,000 mm².



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The equipment complies with the current standards IEC 60079-0 (Ed. 7), IEC 60079-7 (Ed. 5.1) and IEC 60079-31 (Ed. 3).

The list of components was updated.

All technical data and parameters remain unchanged.