



# 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](http://www.iecex.com)

|                     |                                                                                         |             |                                                                              |
|---------------------|-----------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------|
| Certificate No.:    | <b>IECEx EPS 14.0021U</b>                                                               | Page 1 of 4 | <a href="#">Certificate history:</a><br><a href="#">Issue 0 (2014-05-08)</a> |
| Status:             | <b>Current</b>                                                                          | Issue No: 1 |                                                                              |
| Date of Issue:      | 2015-02-02                                                                              |             |                                                                              |
| Applicant:          | <b>eltherm production GmbH</b><br>Ernst-Heinkel-Straße 6-10<br>57299 Burbach<br>Germany |             |                                                                              |
| Equipment:          | <b>trace heater type: ELSR-FHP-..</b>                                                   |             |                                                                              |
| Optional accessory: |                                                                                         |             |                                                                              |
| Type of Protection: | <b>increased safety "e", protection by enclosure "t"</b>                                |             |                                                                              |
| Marking:            | Ex e IIC Gb<br>Ex tb III C Db                                                           |             |                                                                              |

Approved for issue on behalf of the IECEx  
Certification Body:

**Dieter Zitzmann**

Position:

**Manager certification**

Signature:  
(for printed version)

Date:

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
**Businesspark A96**  
**86842 Türkheim**  
**Germany**





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

Additional  
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 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-30-1:2007-01** Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements  
Edition:1

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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/EPS/EXTR14.0026/00](#)

[DE/EPS/EXTR14.0026/01](#)

Quality Assessment Reports:

[FR/INE/QAR12.0007/00](#)

[FR/INE/QAR12.0007/01](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Self-regulating parallel heating cable as heat tracing for freeze protection on tanks, piping, etc. and for frost protection in foundations (installed in conduits) in the hazardous area.

Rated Voltage: 230VAC/277VAC

min. bending radius: 50mm

mechanical strength: 7J

min. ambient temperature: -45°C

max maintain temperature: +65°C (type -23), +80°C (type -38)

max. process temperature: +80°C (type -23), +110°C (type -38)

Rated Power: ELSR-FHP-23: 30(33)W/m at 10°C, 23(25)W/m at 5°C (in conduit)

ELSR-FHP-38:45(50)W/m at 10°C, 38(42)W/m at 5°C (in conduit)

## Schedule of limitations:

The connection method, the temperature class and the requirements made on the qualification of the staff putting the regulations into practice, have to be defined in the certification of final installation system.

The manufacturers instructions must be followed.

**SPECIFIC CONDITIONS OF USE: NO**



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Update of standards and addition of new heater type ELSR-FHP-38 and extension of supply voltage to 277VAC