



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 EPS 21.0062X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: **2022-02-07**

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

Equipment: **Trace heating system ELP/PFA Ex**

Optional accessory:

Type of Protection: **Electrical resistance trace heating "60079-30-1"**

Marking: **Ex 60079-30-1 IIC T2...T6 Gb**
Ex 60079-30-1 IIIC Txxx°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:

Ulrich Feike

Certification Manager

2022-02-07



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:

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





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Manufacturer: **eltherm production GmbH**
Ernst-Heinkel-Str. 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC/IEEE 60079-30-1:2015 Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
Edition:1.0

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 Report:

DE/EPS/ExTR21.0066/00

Quality Assessment Report:

FR/INE/QAR12.0007/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The heat tracing system ELP/PFA Ex consists of IECEx approved components and is suitable for industrial use on pipes, vessels and related equipment in areas with combustible gas or dust.

The system assembly consists of the following:

- Trace heater ELP/PFA-... with power output 15, 30, 45 and 60 W/m at 10 °C and 230 V (Certificate: IECEx EPS 12.0009U)
- End cap EL-ECP (Certificate: IECEx EPS 17.0063U)
- Plastic cable gland M25x1.5 (Certificate: IECEx IBE 12.0023X or equivalent)
- Ex d cable gland A8(B/S)F20s (Certificate: IECEx SIR 05.0020X or equivalent)

Electrical data:

- Voltage: 230 / 277 V ac
- Power: 15, 30, 45 and 60 W/m

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The system is suitable for ambient temperatures -55 °C/-60 °C to +70 °C (depending on the cable gland). The maximum maintain temperature will be determined by eltherm or by the use of eltherm design software 2.0 for each heating circuit and is stated on the product label.
- Operation in a hazardous area (zones 1, 2, 21 or zone 22) requires controlled design (using temperature controllers and limiters) or stabilized design as per IEC 60079-30-2. Determination of the temperature class for every single heating circuit to be performed by eltherm. See also manufacturer documentation.
- If the system is installed with plastic glands M25x1.5 at ambient temperatures below -25 °C the glands need to be installed in a way to be protected from mechanical stress > 4J.
- The maximum allowed maintain temperature is from -60 °C to +200 °C for heaters with power output 15, 30 and 45 W/m and to +180 °C for heaters with power output 60 W/m. The allowed continuous exposure temperature in a de-energized state is from -60 °C to +250 °C.
- The electrical connection needs to be in a separately certified enclosure or outside of the hazardous area.
- Installation and commissioning shall only be carried out by trained personnel in accordance with the requirements of IEC 60079-14, Annex F and in accordance with the manufacturer's specifications.