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 EPS 12.0009U**

Page 1 of 4

Certificate history:
Issue 3 (2021-11-16)
Issue 2 (2021-07-23)
Issue 1 (2012-10-17)
Issue 0 (2012-09-10)

Status: **Current**

Issue No: 4

Date of Issue: 2022-09-09

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

Ex Component: Heating cable Type ELP/PFA-...

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: **60079-30-1**

Marking: Ex 60079-30-1 IIC Gb

Ex 60079-30-1 IIIC Db

Approved for issue on behalf of the IECEx Certification Body: **Ulrich Feike**

Position: **Certification Manager**

Signature: (for printed version)

Date: (for printed version) 2022-09-09

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS Bureau Veritas CPS Germany GmbH 1828

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

BUREAU VERITAS

IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 12.0009U**

Issue No: 4

Date of issue: 2022-09-09

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 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC/IEEE 60079-30-1:2015 Edition:1.0	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements

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/EPS/ExTR12.0018/00 DE/EPS/ExTR12.0018/01 DE/EPS/ExTR12.0018/02
DE/EPS/ExTR12.0018/03

Quality Assessment Report:

FR/INE/QAR12.0007/07

IECEx Certificate of Conformity

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

The parallel trace heater type ELP/PFA-... is designed as a component for the inclusion in trace heating systems for hazardous areas.

Rated Voltage: 230 V ac / 277 V ac

Min. bending radius: 25 mm

type	dimensions approx. (mm)	power output (W/m) (at 230 V and 10°C)	∅ conductor (mm²)	∅ braid (mm²)
ELP/PFA-...	8 x 5.5	15/30/45/60	1.5 or 4	2

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 manufacturer´s instructions must be followed.

The maximum allowed sheath temperature is +260 °C.

The allowed continuous exposure temperature (trace heater de-energized) is from -60 °C to +260 °C.

The allowed maintain temperature (trace heater energized) ranges from:

- -60 °C to +200 °C for heaters with power output 15, 30, 45 W/m,
- -60 °C to +180 °C for heaters with power output 60 W/m.

The minimum bending radius is 25 mm.

IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 12.0009U**

Date of issue: 2022-09-09

Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Addition of variant with 4 mm² conductor diameter.