



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 12.0004U**

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Certificate history:

Status: **Current**

Issue No: 9

[Issue 8 \(2025-03-17\)](#)

[Issue 7 \(2024-01-11\)](#)

[Issue 6 \(2023-01-12\)](#)

[Issue 5 \(2021-07-19\)](#)

[Issue 4 \(2020-02-18\)](#)

[Issue 3 \(2018-05-02\)](#)

[Issue 2 \(2015-11-06\)](#)

[Issue 1 \(2015-01-29\)](#)

[Issue 0 \(2012-09-10\)](#)

Date of Issue: 2026-06-25

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

Ex Component: Trace Heater type ELSR-H, ELSR-QH, ELSR-H+

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: **trace heating**

Marking: Ex 60079-30-1 IIC Gb

Ex 60079-30-1 IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Dr. Rainer Jany

Position:

Manager Certification

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.
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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

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

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

Test Report:

DE/EPS/ExTR12.0012/09

Quality Assessment Report:

FR/INE/QAR12.0007/09



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

Self regulating trace heater of various rating classes as component for the production of trace heating systems

Type ELSR-H

Rated Voltage: 230 VAC / 277 VAC
Rated output (at +10 °C): 10 / 15 / 20 / 30 / 45 / 60 / 75 W/m
Mechanical strength: 7 J
Min. bending radius: 25 mm
Max. surface temperature +195 °C (T3)

Temperature	Temperature value	Operating condition
min. permissible ambient temperature	-60 °C	-
max. permissible temperature of the heated surface (tube temperature)	+120 °C	Trace heater operated
max. permissible working temperature of the trace heater	+150 °C (T3)	Trace heater operated
max. permissible process temperature	+180 °C	Trace heater off

Type ELSR-QH:

Rated Voltage: 230 VAC / 277 VAC
Rated output (at +10 °C): 15 / 30 / 45 / 60 W/m
Mechanical strength: 7 J
Min. bending radius: 25 mm
Max. surface temperature +195 °C (T3)

Temperature	Temperature value	Operating condition
min. permissible ambient temperature	-60 °C	--
max. permissible temperature of the heated surface (tube temperature)	+120 °C	Trace heater operated
max. permissible working temperature of the trace heater	+135 °C (T3)	Trace heater operated
max. permissible process temperature	+135 °C	Trace heater cable off

Type ELSR - H+

Rated Voltage: 230 VAC
Rated output (at +5 °C): 15 / 30 / 45 / 60 / 75 W/m
Mechanical strength: 7 J
Min. bending radius: 25 mm
Max. surface temperature +200 °C (T3)

Temperature	Temperature value	Operating condition
min. permissible ambient temperature	-60 °C	--
max. permissible temperature of the heated surface (tube temperature)	+165 °C	Trace heater operated
max. permissible process temperature	+210 °C	Trace heater off



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SCHEDULE OF LIMITATIONS:

The connection technology, the temperature class and the requirements for the qualification of the personnel responsible for implementing the installation specifications shall be defined in the type examination certificate for the respective trace heating system.

The manufacturer's instructions must be followed.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Editorial change in the certificates.