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 17.0064X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2017-12-15

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

Equipment: **Heating cable system ELSR-SHH-Ex**

Optional accessory:

Type of Protection: **e**

Marking: Ex e IIC T3 Gb or Ex 60079-30-1 IIC T3 Gb

Ex tb IIIC T200°C Db or Ex 60079-30-1 IIIC T200°C Db

Approved for issue on behalf of the IECEx Certification Body: **Holger Schaffer**

Position: **Head of 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 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
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

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/ExTR17.0061/00

Quality Assessment Report:

FR/INE/QAR12.0007/03

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The heating cable system ELSR Ex consists of IECEx approved components and is suitable for use on pipes, vessels and associated equipment in areas with combustible gas or dust (Equipment Group II, Equipment

The system assemply consists of:

- Self regulating heating cable ELSR-SHH-…-BOT with power 15, 30, 45, 60 und 75 W/m at 10°C (Certificate: Sira16ATEX3353, IECEx SIR 16.0113)
- Cable gland M25x1,5 (Certificate: IBExU05ATEX1154U, IECEx IBE 12.0023X)
- End cap EL-ECSH (Certificate: EPS17ATEX1146U, IECEx EPS 17.0063U)
- Connection Sleeve Ex-Con SR (Certificate: IBExU07ATEX1080X, IECEx IBE 13.0012X)
- Mounting assembly Ex-It (Certificate: IBExU09ATEX1023U, IECEx IBE12.0024U)

Electrical data:

- Voltage: 230 VAC
- Power: 15, 30, 45, 60 and 75 W/m

SPECIFIC CONDITIONS OF USE: YES as shown below:
Ambient temperature range: -40 / -20 ° C to + 60 / + 70 ° C

Application temperature: depending on system components: max. -40 to + 250 ° C

When determining the limit temperature, the operating temperature ranges for the system components that have direct contact with heated equipment must be considered.

Heating cable ELSR-SHH	-40 ° C to + 250 ° C
End cap EL-ECSH	-60 ° C to + 250 ° C
Mounting foot Ex-It	-20 ° C to + 200 ° C
Screw connection M25x1.5	-25 ° C to +70 ° C (7J)
	-55 ° C to +70 ° C (4J)
Connection sleeve Ex-Con SR	-32 ° C to + 200 ° C

At temperatures below -25 ° C, the screw connection M25x1.5 must be protected against mechanical stress.

The system components must be combined so that all free ends of the heating cable are closed or contacted.

Installation and commissioning must only be carried out by trained specialist personnel in accordance with the requirements of EN 60079 14: 2014, Annex F and in accordance with the manufacturer's specifications.