(1) # EU - Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 21 ATEX 1 070 X **Revision 0**

(4) Equipment: Heat tracing system ELSR-LS-Ex

(5) Manufacturer: eltherm production GmbH

(6) Address: Ernst-Heinkel-Straße 6-10
57299 Burbach
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 19TH0464.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN 60079-30-1:2017**

EN 60079-7:2015 **EN 60079-31:2014**

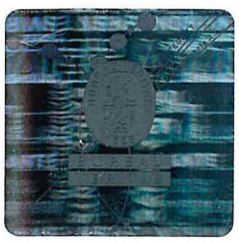
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex 60079-30-1 eb IIC T6 Gb

II 2D Ex 60079-30-1 tb IIIC T85°C Db



Certification department of explosion protection

H. Schaffer

Hamburg, 2021-04-22

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BUREAU VERITAS
Consumer Products Services Germany GmbH
Oehleckerring 40, D-22419 Hamburg
Phone: +49 40 74041-0
cps-hamburg@bureauveritas.com
www.bureauveritas.de/cps

(13) # Annex

(14) **EU - Type Examination Certificate EPS 21 ATEX 1 070 X** **Revision 0**

(15) Description of equipment:

The heating cable system ELSR-LS-Ex is suitable for use on pipes, vessels and associated equipment in areas with combustible gas or dust.

The system assembly consists of:
- Self-regulating heating cable ELSR-LS Ex according to separate certificate EPS 19 ATEX 1 215 U
- End cap EL-ECL (new) according to separate certificate EPS 19 ATEX 1 214 U
- Cable gland M25x1.5 (Certificate: IBExU 05 ATEX 1154 U, IECEx IBE 12.0023X)
- Connection sleeve Ex-Con SR (Certificate: IBExU 07 ATEX 1080 X, IECEx IBE 13.0012X)
- Mounting assembly Ex-It (Certificate: IBExU 09 ATEX 1023 U, IECEx IBE12.0024U)

Electrical data:
- Voltage: 230 Vac
- Power: 10 / 15 / 25 / 30 (W/m at +10°c)

(16) Reference number: 19TH0464

(17) Special conditions for safe use:

Ambient temperature range:	max. -55/-20 °C to +70/+60 °C
Application temperature:	depending on system components: max. -60 °C to +80 °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-LS	-60 °C to +80 °C
End cap EL-ECL	-60 °C to +250 °C
Mounting assembly Ex-It	-20 °C to +200 °C
Cable gland M25x1,5	-25 °C to +70 °C (7 J) -55 °C to +70 °C (4 J)
Connection sleeve Ex-Con SR	-32 °C to +200 °C

At temperatures below -25 °C, the cable gland M25 x 1.5 must be installed 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 IEC 60079-14, annex F and in accordance with the manufacturer's specifications.

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Oehleckerring 40, D-22419 Hamburg
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www.bureauveritas.de/cps

EU - Type Examination Certificate EPS 21 ATEX 1 070 X **Revision 0**

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection Hamburg, 2021-04-22

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