(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 24 ATEX 1 125 X **Revision 1**

(4) Equipment: Ex heating cable system ELSR-H+

(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 24TH0218_01.

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

EN IEC 60079-0:2018 **EN 60079-30-1:2014**

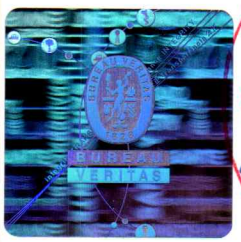
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions of use specified in the annex to this certificate.

(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 IIC T3...T6 Gb

II 2D Ex 60079-30-1 IIIC T200°C...T80°C Db



Certification department of explosion protection

Tuerkheim, 2026-01-28

Certifier

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13) # Annex

(14) **EU - Type Examination Certificate EPS 24 ATEX 1 125 X** **Revision 1**

(15) Description of equipment:

The heating system ELSR-H+ consists of ATEX approved components and is suitable for use on pipes, vessels and associated equipment in areas with combustible gas or dust (Equipment Group II, Equipment Protection Level Gb and Db for T-Class T6...T3 or T85°C...T200°C). Within the associated T-Class, the system can be operated without the need of a separate temperature limiter due to the self-limiting characteristic of the heating cable. In T-Classes with lower temperature limits, the system can be operated either according to the controlled design or the stabilized design.

The system assembly consists of:

- Self-regulating heating cable ELSR-H+ with power 15, 30, 45, 60 und 75 W/m at 5 °C (EPS 12 ATEX 1 429 U)
- Cable gland M25x1.5 (IBExU07ATEX1022X)
- Cable gland EL-GSR (IBExU25ATEX1041X)
- Ex d cable gland Peppers A8** (CML19ATEX1346X)
- Endcap EL-ECSH (EPS 17 ATEX 1 146 U)
- Cable Joint Ex-Con SR (IBExU07ATEX1080X)
- Mounting foot Ex-It (IBExU09ATEX1023U)

Electrical data:

Voltage: 230 V AC

Power: 15, 30, 45, 60 and 75 W/m

(16) Reference number: 24TH0218_01

(17) Special conditions of use:

Application temperature, depending on system components: max. -60 °C to +210 °C

When the system ELSR-H+ is to be used in one of the T-Classes T4, T5 or T6, determination of the T-Class and of the maximum permitted maintain temperature needs to be done by eltherm or by use of the design software "eltherm designer 2.0". In Zone 1 or Zone 21, the system is then operated in controlled or in stabilized design as per EN 60079-30-2.

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-H+	-60 °C to +210 °C
cable gland M25 x 1.5	-25 °C to +70 °C (7 J)
	-55 °C to +70 °C (4 J)
Cable gland EL-GSR	-60 °C to +130 °C
Ex d cable gland Peppers A8**	-60 °C to +180 °C
Endcap EL-ECSH	-60 °C to +250 °C
Cable Joint Ex-Con SR	-32 °C to +200 °C
Mounting foot Ex-It	-20 °C to +200 °C

(17) Special conditions of use (continued):

At temperatures below -25 °C, the cable gland M25x1.5 shall be installed protected against mechanical stress.

The Ex-Con-SR connecting sleeve shall be installed to protect it from mechanical stress.

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

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

The free cable ends are to be connected to separate junction boxes (which are approved according to a recognized type of protection) via the system cable gland or to the system junction boxes type ELAK-Ex-3 via the system mounting assembly Ex-It.

(18) Essential health and safety requirements:

Met by compliance with standards.

ZERTIFIZIERUNGSSTELLE Bureau Veritas CPS Germany GmbH 1828

Certification department of explosion protection Tuerkheim, 2026-01-28

Certifier