(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 12 ATEX 1 429 U **Revision 8**

(4) Component: Trace heater type ELSR-H, ELSR-QH, ELSR-H+

(5) Manufacturer: eltherm production GmbH

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

(7) This component 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 component 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 12TH0149_09.

(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**

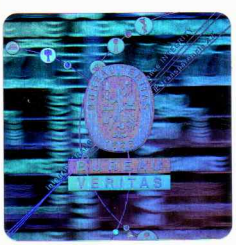
(10) The sign "U" placed behind the certificate number indicates that this certificate shall not be confounded with certificates issued for equipment or protective systems. This certificate is valid for a component without an autonomous function in sense of article 2 (3) and does not authorize for the CE-marking to be applied according to article 13 (3) of the Directive. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

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

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

II 2G Ex 60079-30-1 IIC Gb

II 2D Ex 60079-30-1 IIIC Db



Certification department of explosion protection

Dr. Rainer Jany

Tuerkheim, 2026-06-25

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 12 ATEX 1 429 U** **Revision 8**

(15) Description of component:

Self-regulating trace heater type ELSR-H, ELSR-QH and ELSR-H+ in various rating classes as component for the production of trace heating systems.

Electrical data:

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

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 off

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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

(16) Reference number: 12TH0149_09

(17) 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.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2026-06-25

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