

EU - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) EU - Type Examination Certificate Number

EPS 22 ATEX 1 138 U

Revision 1

- (4) Component: Self-regulating heating cable ThermTrace Lite
**TTL-2-BO
- (5) Manufacturer: HTS Global Production GmbH
- (6) Address: Am Unisys Park 6
65843 Sulzbach
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 20TH0330.
- (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

Ulrich Fejke

Tuerkheim, 2023-08-09

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 22 ATEX 1 138 U**

Revision 1

(15) Description of component:

The heating cable **TTL-2-BO is a self-regulating trace heater that comes with different power outputs (** = rated power output in W/m). The heater consists of a conductive core, the self-regulating matrix, that is enclosed by an electrically isolating inner jacket and a conductive metallic braid. The outer jacket is made from polyolefin.

Technical data:

Rated voltage: 230 V ac

Mechanical resistance: 7 J

Minimum bending radius @ -40 °C: 40 mm

Power rating: 12, 17, 23, 28, 33 W/m @ 5 °C

Temperature	Temperature value	Operating condition
Minimum installation temperature	-40 °C	-
Minimum permissible ambient temperature	-40 °C	Heating cable operated
Maximum permissible temperature of the heated surface	+65 °C	Heating cable operated
Maximum permissible working temperature of the heating cable	+80 °C	Heating cable operated
Maximum withstand temperature	+85 °C	Heating cable off

(16) Reference number: 20TH0330

(17) Notes for manufacture, installation and operation:

The connection method, the temperature class and the requirements made on the qualification of the staff putting the installation regulations into practice have to be defined in the final certification of the respective heat tracing system.

The maximum sheath temperature of the self-limiting heating cable was determined to be +80 °C according to the product classification approach 5.1.13.2 of EN 60079-30-1:2017.

The documentation requirements according to EN 60079-30-1:2017, sections 7.2, 7.3, 7.4, 7.5 and 7.6 need to be considered for the certification of the final heat tracing system.

The trace heater is not intended for outdoor applications and needs to be protected from direct UV radiation.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2023-08-09

Ulrich Feike

