



**BUREAU
VERITAS**



(1) **EC-Type Examination Certificate**

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 94/9/EC**

(3) EC-Type Examination Certificate Number

EPS 14 ATEX 1 770 U

Revision 1

(4) Component: Self-regulating heating tape type ...TTS-...

(5) Manufacturer: HTS Global Technologies AG

(6) Address: Am Unisys Park 6, 65843 Sulzbach, Germany

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, 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 report 14TH0449.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-31:2014

EN 60079-30-1:2007

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

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



II 2G Ex e IIC Gb
II 2D Ex tb IIIC Db



Certification department of explosion protection

D. Zitzmann



Nuremberg, 2015-12-10

Page 1 of 2

Certificates without signature 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. EPS 14 ATEX 1 770 U, Revision 1.



**BUREAU
VERITAS**

Annex

(13)

(14) **EC-Type Examination Certificate EPS 14 ATEX 1 770 U**

Revision 1

(15) Description of component:

Self-regulating heating tape type ...TTS-... of various rating classes used as component for trace heating systems in potentially explosive atmospheres.

Electrical data:

Rated voltage: 230 V
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 | - 45 °C | -- |
| max. permissible temperature of the heated surface (tube temperature) | + 120 °C | Heating tape operated |
| max. permissible working temperature of the heating tape | + 150 °C (T3) | Heating tape operated |
| max. permissible process temperature (cumulative) | + 210 °C (max. 1000 h) | Heating tape off |

(16) Test report: 14TH0449

(17) Special conditions for safe use:

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

The manufacturer's instructions must be followed.

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Nuremberg, 2015-12-10



Page 2 of 2

Certificates without signature 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. EPS 14 ATEX 1 770 U, Revision 1.