

## 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 15 ATEX 1 987 U**

**Revision 3**

(4) Component: Self-regulating heating tape type MCA...-I-FF

(5) Manufacturer: Raytech S.r.l.

(6) Address: Via Enrico Fermi, 11/13/17  
20019 Settimo Milanese (MI)  
Italy

(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.

(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 examination 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

H. Schaffler

Hamburg, 2020-03-31

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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. EPS 15 ATEX 1 987 U, Revision 3.

(13) **Annex**

(14) **EU - Type Examination Certificate EPS 15 ATEX 1 987 U**

**Revision 3**

(15) Description of component:

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

Electrical data:

|                           |                                      |
|---------------------------|--------------------------------------|
| 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                                                           | Value        | Operating condition   |
|-----------------------------------------------------------------------|--------------|-----------------------|
| min. permissible ambient temperature                                  | -60 °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                                  | +180 °C      | Heating tape off      |

(16) Reference number: 12TH0149

(17) Notes for manufacture, installation and operation:

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 compliance with standards.



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(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 15 ATEX 1 986 U**

**Revision 3**

(4) Component: Self-regulating heating tape, type MCA...; MCA...I-PF

(5) Manufacturer: Raytech S.r.l.

(6) Address: Via Enrico Fermi, 11/13/17  
20019 Settimo Milanese (MI)  
Italy

(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 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**

(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 examination 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



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H. Schaffer

Hamburg, 2020-03-31

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 15 ATEX 1 986 U**

**Revision 3**

(15) Description of component:

The self-regulating heating tape type MCA...; MCA...I-PF is used as component for the assembly of complete trace heating systems in potentially explosive atmospheres.

Electrical data:

| Heating tape type | Rated voltage (V) | Rated output (W/m at +10 °C) |
|-------------------|-------------------|------------------------------|
| MCA...            | 230               | 10 / 15 / 25 / 30 / 40       |
| MCA...I-PF        | 230 / (277)       | 10 / 20 / 30 / 40            |

Service temperature range: -60 °C to +65 °C (operated at rated values)  
-60 °C to +80 °C (not operated)

Max. surface temperature: +80 °C (T6)

Min. bending radius: 25 mm

For detailed specifications see respective manufacturer's instructions.

(16) Reference number: 19TH0464

(17) Notes for manufacture, installation and operation:

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 compliance with standards.



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Hamburg, 2020-03-31