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(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 09 ATEX 1 234 X**

**Revision 1**

(4) Equipment: Heating circuit, Type Q \_ \_ - \_ \_ - \_ \_ - \_ \_ / \_ \_ \_ \_

(5) Manufacturer: Quintex GmbH

(6) Address: i \_ Park Tauberfranken 13  
D-97922 Lauda-Königshofen

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

(8) Bureau Veritas Consumer Product Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23<sup>rd</sup> 1994, 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 report 09TH0171.

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

**EN 60079-0:2009**

**EN 60079-18:2009**

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

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

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



II 2G Ex mb IIC T6/T5/T4/T3  
II 2D Ex mb IIIC T85°C/T100°C/T135°C/T200°C

Certification department of explosion protection

Türkheim, February 8, 2013

D. Zitzmann

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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 Product Services Germany GmbH.  
EPS 09 ATEX 1 234X - This certificate is internally administrated under the following number: 09-261, Revision 1



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(13)

## Annexe

(14) **EC Type Examination Certificate EPS 09 ATEX 1 234 X**

(15) Description of equipment:

The heating circuit type Q... is used for electric heating of pipes, basins, protection boxes, E-motors etc. to protect temperature sensitive parts against freezing or to keep up a specific temperature or to prevent condensate formation. Following connection variations are possible:

Type identification:

Q - - - - - I - - - - -

M1 = Connection Heating band ILL  
M2 = Connection Heating band ILLW  
M3 = Connection Heating band  
M4 = Connection Heating band ILMP  
H1 = Connection Heating band ILH  
H2 = Connection Heating band ILS

P = Power in W/m at 10°C:  
e.g. 15 = 15 W/m

Supply voltage:  
1 = 230V  
2 = 115V  
3 = 24V

Connection cable:  
1 = 3 G 1, 5 mm<sup>2</sup> Radox  
2 = 3 G 2, 5 mm<sup>2</sup> Radox  
5 = 3 G 1, 5 mm<sup>2</sup> FEP  
6 = 3 G 2, 5 mm<sup>2</sup> FEP

Heating band ending:  
1 = Dual shrink tube  
2 = Polyolefin endcap  
3 = Silicon-Boot HTL  
4 = Endcap Stripfree HTL

Heating circuit-length in m: e.g.  
001 = 1 m DM1 = 0,1m  
010 = 10 m DM5 = 0,5m  
200 = 200 m DM9 = 0,9m

Marking without influence on  
explosion protection.





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(16) Test report: 09TH0171

(17) Special conditions for safe use:

For heating circuits with heating band ILL, ILLW, ILM and ILMP the impact test according to EN 60079-0 clause 26.4.2 was only done with the low impact energy. Therefore it has to be assured that these components are only used with a low risk of mechanical damage.

Following ambient temperatures are allowed for different heating bands :  
Heating band ILH and ILS with E-Cu press-connection: -55°C to +180°C.  
Heating band ILL, ILLW, ILM and ILMP with E-Cu press-connection: -20°C/-25°C to +85°C.  
Heating band ILL, ILLW, ILM and ILMP with clamp block: -20°C/-40°C to +65°C/+85°C.

Depending on the conditions of use, the maximum service temperature of the selected heating band shall not be higher than the specified maximum ambient temperature.

The dielectric strength test according to EN 60079-18, 9.2 shall be carried out as routine test.

(18) Essential health and safety requirements:

Met by standards.

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Türkheim, February 8, 2013



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