(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 13 ATEX 1 616 **Revision 0**

(4) Equipment: Connection and junction box type Q*-****-****-***5/...

(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 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 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 13TH0337.

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

EN 60079-0:2012	**EN 60079-7:2007**
EN 60079-11:2012	**EN 60079-31:2009**

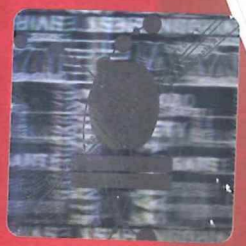
(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(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 eb ia IIC/IIB/IIA T6/T5/T4

II 2D Ex tb IIIC T85°C/T100°C/ T120°C



Certification department of explosion protection

Türkheim, November 28, 2013

D. Zitzmann

(13) **Annexe**

(14) **EC-Type Examination Certificate EPS 13 ATEX 1 616**

(15) Description of equipment:

The connection and Junction Box type Q*-****-****-***5/... consists of a enclosure in the type of protection Increased safety "e" or dust tight enclosure "t" for stationary assembly. The enclosure is equipped with terminals for circuits in the type of protection Increased safety "e" or intrinsic safety "ia" or a combination of both. The components of intrinsically safe circuits are to be marked accordingly. The empty enclosure as well as all mounted and attached components have been tested and certified under separate examination certificate.

Electrical data:

Rated voltage: max. 2200 V AV/DC*

Rated current: max. 500A AC/DC*

Rated wire range: max. 300 mm²*

Protective conductor section: max. 150mm²*

*) according to terminal type used.

Size	Length in mm	Width in mm	Heigth in mm
min	85	75	55
max	600	400	160

Maximum amount of conductors depending on diameter permitted constant current acc. to enclosure sizes. Every inserted conductor and every internal connecting conductor counts as one conductor; bridges and earth conductors are not mentioned.

Q*-** (85 x 75 x 55)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	26															
16	9	17	69													
20	3	10	20													
25		4	11	21												
35			3	8	21											
50					6	17										
63					2	8	29									
80						3	9	32								
100							3	8								
125								3	8							
160									3	7						
200										2	6	20				
225											3	8				
250											2	4	10			
315													2	6		
400															4	12
500																2
Max. phys. am.	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (110 x 75 x 55)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	27															
16	9	18	72													
20	4	10	20													
25		5	11	22												
35			3	8	22											
50					7	18										
63					2	8	30									
80						3	9	33								
100							4	8								
125								3	9							
160									3	8						
200										2	6	21				
225											4	8				
250											2	5	10			
315													3	6		
400															4	12
500																2
Max. phys. am.	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (160 x 75 x 55)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	28															
16	9	18	73													
20	4	11	21													
25		5	12	23												
35			3	9	22											
50					7	18										
63					2	8	30									
80						3	9	34								
100							4	9								
125								3	9							
160									3	8						
200										2	7	21				
225											4	8				
250											2	5	10			
315													3	6		
400															4	12
500																2
Max. phys. am.	14	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (190 x 75 x 55)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	28															
16	9	18	73													
20	4	11	21													
25		5	12	23												
35			3	9	22											
50					7	18										
63					2	8	30									
80						3	9	34								
100							4	9								
125								3	9							
160									3	8						
200										2	7	21				
225											4	8				
250											2	5	10			
315													3	6		
400															4	12
500																2
Max. phys. am.	14	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (230 x 75 x 55)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	28															
16	9	18	73													
20	4	11	21													
25		5	12	23												
35			3	9	22											
50					7	18										
63					2	8	30									
80						3	9	34								
100							4	9								
125								3	9							
160									3	8						
200										2	7	21				
225											4	8				
250											2	5	10			
315													3	6		
400															4	12
500																2
Max. phys. am.	14	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (120 x 122 x 90)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	43															
16	14	28	110													
20	6	16	32													
25		7	18	35												
35			5	13	34											
50				2	11	28										
63					3	13	46									
80						5	14	52								
100							6	13								
125								5	13							
160									4	12						
200										4	10	32				
225											6	12				
250											3	7	16			
315													4	9		
400														2	6	19
500																3
Max. phys. am.	12	12	10	7	6	5	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (220 x 120 x 90)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	45															
16	15	30	118													
20	6	17	34													
25		8	19	37												
35			5	14	36											
50				2	11	30										
63					4	14	49									
80						5	15	55								
100							6	14								
125								5	14							
160									5	13						
200										4	11	35				
225											6	13				
250											3	8	17			
315													5	10		
400														2	7	20
500																4
Max. phys. am.	56	56	31	23	10	8	7	5	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (160 x 160 x 90)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	48															
16	16	32	125													
20	6	18	36													
25		9	20	39												
35			6	15	38											
50				2	12	31										
63					4	14	52									
80						5	16	58								
100							7	15								
125								6	15							
160									5	13						
200										5	12	37				
225											6	14				
250											3	8	18			
315													5	11		
400														2	7	22
500																4
Max. phys. am.	42	42	21	16	10	12	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (260 x 160 x 90)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	52															
16	18	34	135													
20	7	20	39													
25		9	22	42												
35			6	16	41											
50				2	13	34										
63					4	16	56									
80						6	17	63								
100							7	16								
125								6	17							
160									5	15						
200										5	13	40				
225										2	7	15				
250											4	9	20			
315												2	5	12		
400														2	8	23
500																4
Max. phys. am.	42	42	21	16	10	12	0	0	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (560 x 160 x 90)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	53															
16	18	35	138													
20	7	20	40													
25		9	22	43												
35			6	17	42											
50				2	13	35										
63					4	16	58									
80						6	18	64								
100							7	17								
125								6	17							
160									6	15						
200										5	13	40				
225										2	7	16				
250											4	9	20			
315												2	5	12		
400														2	8	24
500																4
Max. phys. am.	126	126	84	48	10	32	20	8	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (360 x 160 x 90)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	53															
16	18	35	138													
20	7	20	40													
25		9	22	43												
35			6	17	42											
50				2	13	35										
63					4	16	58									
80						6	18	64								
100							7	17								
125								6	17							
160									6	15						
200										5	13	40				
225										2	7	16				
250											4	9	20			
315												2	5	12		
400														2	8	24
500																4
Max. phys. am.	231	231	147	12	10	51	30	16	5	5	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (200 x 250 x 120)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	65															
16	22	43	169													
20	9	25	49													
25		12	27	53												
35			8	21	52											
50				3	17	43										
63					5	20	71									
80						7	22	79								
100							9	21								
125								8	21							
160									7	18						
200										6	16	50				
225										2	9	19				
250											5	12	25			
315												2	7	14		
400														3	10	29
500																5
Max. phys. am.	112	112	84	42	10	21	17	11	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (255 x 250 x 120)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	70															
16	24	46	181													
20	10	27	52													
25		13	29	57												
35			8	22	55											
50				3	18	46										
63					6	21	76									
80						8	23	85								
100							10	22								
125								9	22							
160									7	20						
200										7	17	53				
225										2	10	21				
250											5	12	26			
315												2	7	16		
400														3	11	32
500																6
Max. phys. am.	148	148	111	54	10	21	18	14	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (255 x 250 x 160)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	81															
16	28	54	210													
20	11	31	61													
25		15	34	66												
35			10	26	65											
50				3	21	53										
63					7	25	88									
80						9	27	99								
100							12	26								
125								10	26							
160									9	23						
200										8	20	62				
225										3	11	24				
250											6	15	31			
315												3	9	18		
400														4	12	37
500																7
Max. phys. am.	148	148	111	54	10	21	18	14	0	0	0	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (405 x 400 x 120)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	91															
16	31	61	236													
20	13	35	68													
25		17	39	75												
35			11	29	72											
50				4	23	60										
63					8	28	99									
80						10	31	111								
100							13	29								
125								11	29							
160									10	26						
200										9	22	70				
225										3	13	27				
250											7	16	34			
315												3	10	20		
400														4	14	41
500															2	8
Max. phys. am.	434	434	310	184	10	72	60	24	16	16	10	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (405 x 400 x 160)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	103															
16	35	68	266													
20	14	40	77													
25		19	43	84												
35			13	33	82											
50				4	26	67										
63					9	31	111									
80						12	35	125								
100							15	33								
125								13	33							
160									11	29						
200										10	25	78				
225										4	14	31				
250											7	18	39			
315												4	11	23		
400														5	16	46
500															2	9
Max. phys. am.	434	434	310	184	10	72	60	24	16	16	10	0	0	0	0	0

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

Q*-** (600 x 250 x 120)**

Cross section in mm²

Current [A]	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
6																
10	78															
16	26	52	201													
20	11	30	58													
25		14	33	64												
35			9	25	62											
50				3	20	51										
63					6	24	84									
80						9	26	95								
100							11	25								
125								10	25							
160									8	22						
200										8	19	59				
225										3	11	23				
250											6	14	29			
315												3	8	17		
400														4	12	35
500																7
Max. phys. am.	432	432	288	162	10	63	51	37	18	9	6	6	4	4	4	4

In this section any additional assembly is possible under consideration of indications and defined assembly dimensions

Assembly in this section requires a specific heating verification

(16) Test report: 13TH0337

(17) Special conditions for safe use:

None.

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Türkheim, November 28, 2013

D. Zitzmann