

# (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 1616

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 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 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

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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 Products Services Germany GmbH.

EPS 13 ATEX 1 616 Rev. 0.



(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 mm<sup>2\*</sup>

Protective conductor section: max. 150mm<sup>2\*</sup>

\*) 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)

					C	ross se	ection i	n mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6												20.00				
10	26								on any				•			
16	9	17	69						der cor			indica	itions a	and		
20	3	10	20				defin	ed ass	embly	dimens	ions					
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		Asseml	0.00				a _				3	8				
250		specific	heatir	ng veri	fication	1					2	4	10			
315													2	6		
400	1														4	12
500																7
. phys. am.	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	(

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

					C	ross se	ection i	n mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6																
10	27							is secti								
16	9	18	72					ible un				findica	ations a	and		
20	4	10	20				detir	ned asso	embly	aimen	sions					
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		۸		L						2	6	21				
225		Assem specific					a				4	8				
250		specific	c neati	ng ven	iicatioi	1					2	5	10			
315													3	6		
400															4	- 1
500																
. phys. am.	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	

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

Cross section in mm<sup>2</sup>

_						1022 26	CHOIL	11 111111								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	30
Current [A]																
6																
10	28							is sectio								
16	9	18	73					ible und				f indica	tions a	and		
20	4	11	21				defir	ed asse	embly	dimen	sions					
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				this sec		•	a				4	8				
250		specifi	ic heati	ng veri	ficatio	n					2	5	10			
315													3	6		
400															4	1
500																
phys. am.	14	14	7	0	0	0	0	0	0	0	0	0	0	0	0	

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

						(	Cross se	ection i	n mm²	1							
		1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Curr	rent [A]																
	6																
	10	28									additio						
	16	9	18	73									findica	ations a	ind		
	20	4	11	21				denn	ed asse	embly	dimens	sions					
	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	F			BIG.						2	7	21				
	225	- 1					equires	а				4	8				
	250		specific	c heatir	ng veri	fication	ח					2	5	10			
	315													3	6		
	400															4	12
	500																2
phy	s. am.	14	14	7	0	0	ol	0	0	0	0	0	0	0	0	0	(



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

_					(	ross se	ction i	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6																
10	28							is sectio								
16	9	18	73					ible und				findica	ations	and _		
20	4	11	21				defin	ned asse	embly	aimens	sions					
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				1-2	· Venne me					2	7	21				
225			ibly in t c heati			quires .	3				4	8				
250		specin	c neau	ng ven	ncatio	11					2	5	10			
315													3	6		
400	l.														4	12
500																2
ax. phys. am.	14	14	7	0	0	0	0	0	0	0	0	0	0	0	0	C

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

					(	Tross se	ection i	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]	]															
6	5															
10	43							is secti								
16	14	28	110					ible un				findica	ations	and		
20	6	16	32				dem	ned ass	embiy	aimen	sions					
25	5	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							1_			4	10	32				
225			nbly in t				a				6	12				
250		specii	ic heati	ng veri	псацо	n					3	7	16			
315													4	9		
400														2	6	1
500																
. phys. am.	12	12	10	7	6	5	0	0	0	0	0	0	0	0	0	



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

					(	ross se	ection	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6														_		
10	45							is secti								
16	15	30	118					ible un				f indica	ations a	and _		
20	6	17	34				defi	ned ass	embly	dimens	sions					
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			nbly in t				a				6	13				
250		specif	ic heati	ing ver	ificatio	n					3	8	17			
315													5	10		
400							_							2	7	20
500					-											4
phys. am.	56	56	31	23	10	8	7	5	0	0	0	0	0	0	0	0

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

					(	ross se	ection i	n mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6																
10	48											sembl				
16	16	32	125					ible un ied ass				f indica	itions a	and		
20	6	18	36				dem	ieu ass	embly	aimen	SIONS					
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			nbly in t				a				6	14				
250		specif	ic heati	ng veri	iicatioi	1					3	8	18			
315													5	11		
400											-			2	7	22
500																1
x. phys. am.	42	42	21	16	10	12	0	0	0	0	0	0	0	0	0	(



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

_					(	Cross s	ection i	in mm <sup>2</sup>	?							
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6										0.00						
10	52								on any							
16	18	34	135						der co			f indica	ations a	and _		
20	7	20	39				detir	ied ass	embly	aimen	sions					
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			nbly in t				a _			2	7	15				
250		specif	ic heati	ng veri	ficatio	n					4	9	20			
315												2	5	12		
400														2	8	23
500																4
c. phys. am.	42	42	21	16	10	12	0	0	0	0	0	0	0	0	0	0

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

					C	ross se	ection	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6																
10	53							is secti								
16	18	35	138					ible un				findica	ations a	and		
20	7	20	40				defir	ned ass	embly	dimen	sions					
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	-						- 1			5	13	40				
225		Assem	bly in t	his sec	tion re	quires	a 🔚			2	7	16				
250		specifi	ic heati	ng veri	fication	1					4	9	20			
315												2	5	12		
400														2	8	24
500																4
phys. am.	126	126	84	48	10	32	20	8	0	0	0	0	0	0	0	0



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

-					C	Cross se	ection	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6																
10	53							is secti								
16	18	35	138					ible un				findica	ations a	and _		
20	7	20	40				defir	ned ass	embly	dimen	sions					
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	y									5	13	40				
225			bly in t				a			2	7	16				
250		specif	ic heati	ng veri	ficatio	n					4	9	20			
315												2	5	12		
400														2	8	24
500																4
phys. am.	231	231	147	12	10	51	30	16	5	5	0	0	0	0	0	0

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

Max.

					(	Cross se	ection	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6														-		
10	65							is secti								
16	22	43	169				1	ible un				findica	ations a	and		
20	9	25	49				defii	ned ass	embly	dimen	sions					
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	1									6	16	50				
225			ably in t				a			2	9	19				
250		specif	ic heati	ng veri	ficatio	n					5	12	25			
315												2	7	14		
400														3	10	29
500																5
phys. am.	112	112	84	42	10	21	17	11	0	0	0	0	0	0	0	0



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

					(	cross se	ection i	n mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	30
Current [A]																
6																
10	70						1	is secti						. , E		
16	24	46	181					ible un				f indica	ations a	and _		
20	10	27	52				defir	ed ass	embly	dimen	sions					
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			nbly in t				a			2	10	21				
250		specif	ic heati	ng veri	ficatio	n					5	12	26			
315	-											2	7	16		
400														3	11	
500																
phys. am.	148	148	111	54	10	21	18	14	0	0	0	0	0	0	0	

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

					(	cross se	ection i	n mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	30
Current [A]																
6														_		
10	81									additi						
16	28	54	210							nsidera		t indica	itions a	and		
20	11	31	61				defin	ied ass	embiy	dimen	sions					
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			nbly in t				a			3	11	24				
250		specif	ic heati	ng veri	fication	1					6	15	31			
315												3	9	18		
400														4	12	
500																
phys. am.	148	148	111	54	10	21	18	14	0	0	0	0	0	0	0	



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

_					(	ross se	ection	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6														-	-063	
10	91							is secti								
16	31	61	236				1.5	ible un				findica	ations a	and		
20	13	35	68				defii	ned ass	embly	dimen	sions					
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				delle sess						9	22	70				
225				this sec ing veri		•	а			3	13	27				
250		specii	ic neat	ing ven	iicatio	11					7	16	34			
315												3	10	20		
400														4	14	41
500															2	8
. phys. am.	434	434	310	184	10	72	60	24	16	16	10	0	0	0	0	0

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

					(	ross s	ection	in mm²								
	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6														_		
10	103							is secti						_		
16	35	68	266				1	ible un				tindica	ations a	and _		
20	14	40	77				den	ned ass	embly	amen	SIONS					
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		Λ	a la la dissa	this age	tion ro					10	25	78				
225				this sec ing veri			d			4	14	31				
250		specii	ic ricat	ing ven	neacto						7	18	39			
315												4	11	23		
400														5	16	4
500							200								2	
. phys. am.	434	434	310	184	10	72	60	24	16	16	10	0	0	0	0	(



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

	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Current [A]																
6										S 200 IS	200					
10	78											sembl				
16	26	52	201							nsidera dimen:		f indica	ations a	and _		
20	11	30	58				deni	ied ass	embly	aimen	sions					
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		Accor	ably in t	his cos	tion ro	auiror	2			8	19	59				
225			nbly in t ic heati				d			3	11	23				
250		specii	ic fiedd	ing veri	neacto		_				6	14	29			
315							_				_	3	8	17	-	
400														4	12	35
500				1											- 1	7
phys. am.	432	432	288	162	10	63	51	37	18	9	6	6	4	4	4	4

- (16) <u>Test report:</u> 13TH0337
- (17) Special conditions for safe use:

None.

(18) Essential health and safety requirements:

Met by standards.

D. Zitzmann

Certification department of explosion protection

Türkheim, November 28, 2013

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