



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EPS 12.0034U Issue No: 1 Certificate history:
Status: Current Page 1 of 5 Issue No. 1 (2015-06-11)
Date of Issue: 2015-06-11 Issue No. 0 (2013-01-08)

Applicant: Quintex GmbH
i_PARK TAUBERFRANKEN 13
97922 Lauda-Königshofen
Germany
Germany

Electrical Apparatus: empty cabinets, type Q - ____ - ____ - __8/____
Optional accessory:

Type of Protection: e, px, py, pz, tb, tc

Marking:
Ex e IIC Gb
Ex px IIC Gb
Ex py IIC Gb
Ex pz IIC Gc
Ex tb IIIC Db IP66
Ex tb IIIA Db IP54/IP66
Ex tc IIIB Dc IP54/IP66

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Head of Certification body

Signature:
(for printed version)

Date:



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:



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Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: Quintex GmbH
i_PARK TAUBERFRANKEN 13
97922 Lauda-Königshofen
Germany
Germany

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-2 : 2007-02 Edition:5	Explosive Atmospheres - Part 2 Equipment protection by pressurized enclosure "p"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/EPS/ExTR12.0032/01

Quality Assessment Report:

DE/EPS/QAR11.0001/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The enclosure series Empty Cabinets, type Q - ____ - ____ - __8/____ is type of protection increased safety and dust-proof or dust-protected design respectively. It can be used for installations in type of protection increased safety, pressurized enclosures and encapsulation for applications in dust explosion hazardous area and offers protection against access to hazardous parts, ingress of solid foreign objects and ingress of water of type IP66 or IP54 respectively according to IEC 60529:1989 + A1: 1999.

Schedule of limitations:

See annexe.

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Addition of a higher IP-class (IP66) of the enclosures.

Annex:

IECEX EPS 12.0034 Annexe Rev.1.pdf



Attachment to certificate

IECEX EPS 12.0034 U
issue No.: 1



Applicant:

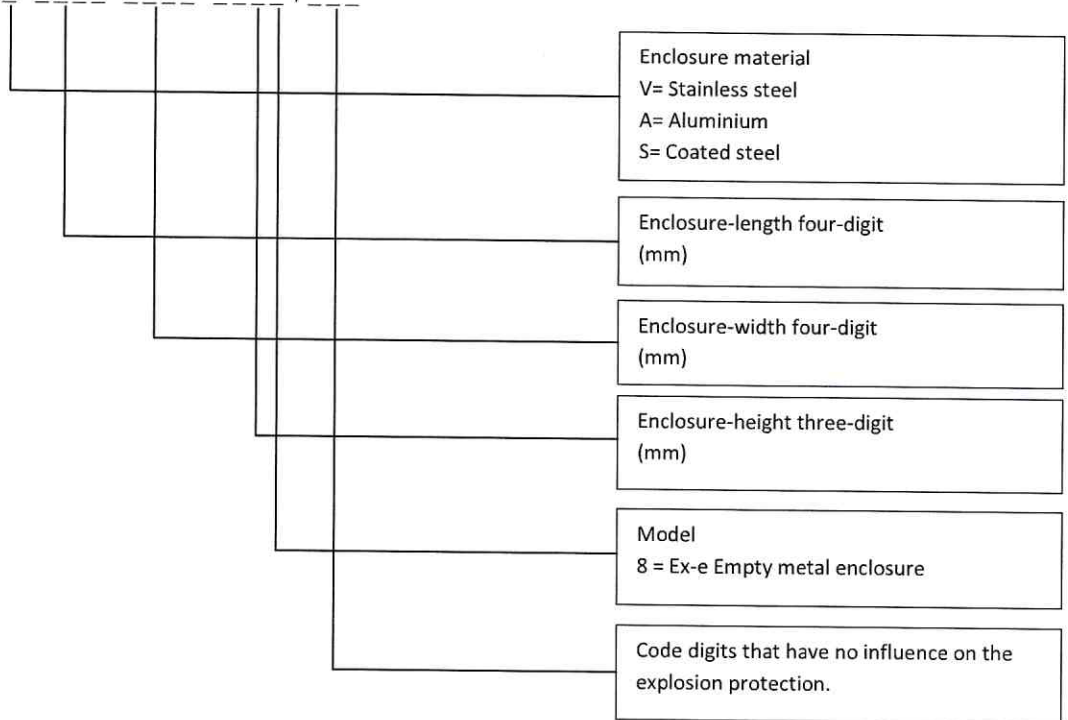
Quintex GmbH
i_PARK TAUBERFRANKEN 13
97922 Lauda-Königshofen
Germany

Electrical Apparatus:

Empty Cabinets, Type: Q - ____ - ____ - ____ 8/ ____

Type key:

Q - - - - / - - - -



Special conditions for safe use:

For pressurized enclosures that exceed the dimensions of 404mm length, 495mm width and 181.5 mm in height, the maximum overpressure test in accordance with IEC 60079-2, 16.1 has to be repeated with the respective enclosure.

The ambient temperature range differs from the standard temperature range and is dependent on the structure and material of the gaskets, as well as the construction. The different types are shown in the following tables:

Cabinet:

	Type	Temperature range	IP-protection class
EPDM foamed	E1S	$- 40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 70\text{ }^{\circ}\text{C}$	IP54
EPDM glued	E2S	$- 40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 70\text{ }^{\circ}\text{C}$	IP54
Silicone punched	S1S	$- 60\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 120\text{ }^{\circ}\text{C}$	IP54
Silicone glued	S2S	$- 60\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 120\text{ }^{\circ}\text{C}$	IP54

Enclosure:

	Type	Temperature range	IP-protection class
EPDM foamed	E1G	$- 40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 70\text{ }^{\circ}\text{C}$	IP66
EPDM glued	E2G	$- 40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 70\text{ }^{\circ}\text{C}$	IP66
Silicone punched	S1G	$- 60\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 120\text{ }^{\circ}\text{C}$	IP66
Silicone glued	S2G	$- 60\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 120\text{ }^{\circ}\text{C}$	IP66

For full certification as equipment the tests according to IEC 60079-7, 5.8, 6.8 and Appendix E have to be performed or the maximum heating has to be calculated, if necessary. Based on the results the appropriate temperature class has to be assigned.

Warnings in accordance with IEC 60079-0 and IEC 60079-2 as well as IEC 60079-7 and IEC 60079-31 corresponding to the application are required.

It must be ensured that the cabinets' tightness of IP66 or IP54 remains effective. Accordingly, appropriate and approved components (e.g. cable entries and cable glands) must be used.

It must be guaranteed that the explosion protection is not impaired or eliminated by the number and size of the holes.

When using the viewing glass highly efficient charge generating mechanisms in the vicinity of the enclosure have to be excluded.