

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:

IECEX PTB 07.0060X

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Certificate history:

Status:

Current

Issue No: 6

Issue 5 (2021-10-14) Issue 4 (2018-03-23)

Date of Issue:

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Issue 3 (2012-02-29)

2023-03-20

Issue 2 (2010-12-17)

Applicant:

ROSE Systemtechnik GmbH

Issue 1 (2010-08-04) Issue 0 (2007-11-05)

Erbeweg 13 - 15 32457 Porta Westfalica

Germany

Equipment:

Connection and Junction Box and Control Box Type 35.XX XX XX, 36.XX XX XX, R5 XX XX XX, R6 XX XX XX, R7

XX XX XX and R8 XX XX XX

Optional accessory:

Type of Protection:

Increased safety, Protection by enclosure, Flameprood enclosure, Intrinsic safety, Protection by encapsulation,

Protection of equipment and transmission systems using optical radiation

Marking:

Ex db eb ia [ia Ga] mb [op is] op pr IIC T6...T4 Gb

Ex tb IIIC T85 °C...T135 °C Db

Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature:

(for printed version)

Date:

(for printed version)

Dipl. Phys. Uwe Völkel

Department "Explosion Protection in Energy Technology"

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Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB) Bundesallee 100 38116 Braunschweig Germany





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Date of issue:

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Manufacturer:

ROSE Systemtechnik GmbH

Erbeweg 13 - 15 32457 Porta Westfalica

Germany

Manufacturing locations:

ROSE Systemtechnik GmbH

Erbeweg 13 - 15 32457 Porta Westfalica

Germany

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 equipment 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 60079-0:2017

Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"

Edition:4.1

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

Edition:2

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

60079-31:2022-01

Edition:3.0

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

IEC 60079-7:2017 Edition:5.1

This Certificate does not indicate compliance with 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/PTB/ExTR07.0060/06

Quality Assessment Report:

DE/EPS/QAR17.0003/52



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The Connection and Junction Box and Control Box type 35. XX XX XX, 36. XX XX XX, R5 XX XX, R6 XX XX XX, R7 XX XX XX and R8 XX XX XX consists of enclosures out of sheet steel or stainless steel in the type of protection Increased Safety "eb" and Protection by enclosure "tb", which are provided for stationary assembly. They are equipped with terminals for circuits in the type of protection Increased Safety "e" or Intrinsic Safety "ia" or combinations of both. The components for intrinsically safe circuits are marked, e.g. in light blue. Connection is by means of Ex-type cable entries. The empty enclosures as well as all mounted and attached components have been tested and certified under a separate examination certificate.

Technical data, Nomenclature, Notes for manufacturing and operation and Assembly tables see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Components attached or installed (terminal compartments, bushings, Ex-type cable glands, connectors) shall be of a technical standard that at least complies with the specifications on the cover sheet, and they shall have a separate examination certificate. The operating conditions specified in the component certificates must definitely be complied with, and the operating instructions must include a note to inform the operating company of this equipment. The method used for assessing the suitability of the used component must be documented in a verifiable manner in compliance with the QM system.
- 2. For repair of separately certified components, the IECEx Examination for these components must be observed.
- Equipment of the type of protection intrinsic safety "i" according to IEC 60079-11 is to be installed in such a way that the distances, creepage distances und clearances between intrinsically safe circuits and non-intrinsically safe circuits required according to IEC 60079-14 are complied with.
- 4. When more than one intrinsically safe circuit is used, the rules for interconnection are to be observed.
- Degree of protection IP66 will be safeguarded only when sealing and cable entry fittings are properly fitted. The manufacturer's instructions must be followed.
- Installation of the components in the electrical apparatus shall be made such that the local temperatures will be within the operating temperature range.
- The Connection, Junction and Control Box with a coating must not be used in areas affected by charge-producing processes, mechanical
 friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed
 dust.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- · Update to the current standards
- Extension of the ambient temperature limit for the use of bus bars
 Including Ex Components Type of protection [op is] and [op pr]

Annex:

COCA_070060X-06.pdf



Attachment to Certificate IECEx PTB 07.0060X, Issue 6



Applicant:

ROSE Systemtechnik GmbH

Erbeweg 13-15

32457 Porta Westfalica

Germany

Electrical Apparatus:

Connection and Junction Box and Control Box

Type 35.XX XX XX, 36.XX XX XX, R5 XX XX XX, R6 XX XX XX,

R7 XX XX XX and R8 XX XX XX

Description

The Connection and Junction Box and Control Box type 35. XX XX XX, 36. XX XX XX, R5 XX XX XX, R6 XX XX XX, R7 XX XX And R8 XX XX XX consists of enclosures out of sheet steel or stainless steel in the type of protection Increased Safety "eb" and Protection by enclosure "tb", which are provided for stationary assembly. They are equipped with terminals for circuits in the type of protection Increased Safety "e" or Intrinsic Safety "ia" or combinations of both. The components for intrinsically safe circuits are marked, e.g. in light blue. Connection is by means of Ex-type cable entries. The empty enclosures as well as all mounted and attached components have been tested and certified under a separate examination certificate.

Technical Data

Ambient temperature:

-60 °C to +130 °C with glass window

-60 °C to +130 °C with silicone gasket

-60 °C to +130 °C with HF Gasket (EMV)

-40 °C to +90 °C with PU foam

-20 °C to +85 °C with CR gasket

-50 °C to +85 °C with PC window

-60 °C to +90 °C with bus bars

Degree of protection: IP66

Rated voltage:

Up to 1500 V

Rated current:

Max. 630 A

Conductor size:

Max. 300 mm²

Protective cross section:

Max. 150 mm²

Nomenclature

XX.	**	**	**
1	2	3	1

1: Type

3: Width

2: Length

4: Depth



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Product Type	max. Height [mm]	max. Width [mm]	max. Depth [mm]
Empty enclosure 34.XX XX XX Ex Stainless Steel Standard			
Increased Safety 35.XX XX XX Ex Stainless Steel Standard	1200	2000	1000
Intrinsic Safety / mixed assembled 36.XX XX XX Ex Stainless Steel Standard Empty enclosure			
34.00 XX XX Ex Stainless Steel Cabinets			
Increased Safety 35.00 XX XX Ex Stainless Steel Cabinets	1200	2000	1000
Intrinsic Safety / mixed assembled 36.00 XX XX Ex Stainless Steel Cabinets			
Empty enclosure 34.XX XX Ex Stainless Steel Flange 1. Generation 34.03 XX XX Ex Stainless Steel Flange 2. Generation			
Increased Safety 35.00 XX XX Ex Stainless Steel Flange 1. Generation 35.03 XX XX Ex Stainless Steel Flange 2. Generation	1200	2000	1000
Intrinsic Safety / mixed assembled 36.00 XX XX Ex Stainless Steel Flange 1. Generation 36.03 XX XX Ex Stainless Steel Flange 2. Generation			
Empty enclosure 34.04 XX XX ProtEx electropolished 34.05 XX XX ProtEx electropolished / Return Flange 34.06 XX XX ProtEx polished 34.07 XX XX ProtEx polished / Return Flange			
Increased Safety 35.04 XX XX ProtEx electropolished 35.05 XX XX ProtEx electropolished / Return Flange 34.06 XX XX ProtEx polished 34.07 XX XX ProtEx polished / Return Flange	980	740	205
Intrinsic Safety / mixed assembled 36.04 XX XX ProtEx electropolished 36.05 XX XX ProtEx electropolished / Return Flange 36.06 XX XX ProtEx polished 36.07 XX XX ProtEx polished / Return Flange			
Empty enclosure 34.08 XX XX Captive Clamp			
Increased Safety 35.08 XX XX Captive Clamp	450	620	230
Intrinsic Safety / mixed assembled 36.08 XX XX Captive Clamp	91		



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Product Type	max. Height [mm]	max. Width [mm]	max. Depth [mm]
Empty enclosure 34.XX XX XX Ex Stainless Steel Special Size			
Increased Safety 35.XX XX XX Ex Stainless Steel Special Size	2000	1200	1000
Intrinsic Safety / mixed assembled 36.XX XX XX Ex Stainless Steel Special Size			
RMS enclosure (Code 5, 6, 7, 8) Increased Safety			
R5 XX XX XX Special Size R6 XX XX XX Special Size	600	600	260
Intrinsic Safety / mixed assembled			
R7 XX XX XX Special Size R8 XX XX XX Special Size			

Note: The maximum heat dissipation capacity depends on the individual enclosure size.

The rated values are maximum values, the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility. Further technical details have been specified in the test documents.

The composition of the symbol specifying the type of protection depends on the types of protection of the components used.

The maximum permissible ambient temperature range of the terminal housing can be limited by the maximum permissible ambient temperature ranges of the separately certified equipment.

Notes for manufacturing and operation

Each device needs to be evaluated concerning the max. allowed temperature limit according to the relevant temperature class and concerning the limiting temperature of the materials. This evaluation needs to be done within the engineering process and must be complemented by an additional temperature measurement in any case doubt. The admissible ambient temperature ranges of the build-in components may not be exceeded at the place of installation.