



# 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](http://www.iecex.com)

Certificate No.: **IECEX PTB 08.0004** issue No.: **1**  
 Status: **Current**  
 Date of Issue: **2008-05-20** Page 1 of 5

Certificate history:  
 Issue No. 1 (2008-5-20)  
 Issue No. 0 (2008-4-29)

Applicant: **ROSE Systemtechnik GmbH**  
 Erbeweg 13  
 32457 Porta Westfalica  
 Germany

Electrical Apparatus: **Connection and Junction Box Type 06. .... and 16. ....**  
 Optional accessory:

Type of Protection: **Increased Safety, Intrinsic Safety, Protection by Enclosures**

Marking: **Ex e Ia II, IIC T6, T5, T4**  
**Ex tD A21 IP66 T 85 °C, T 100 °C, T 135 °C**

Approved for issue on behalf of the IECEx  
 Certification Body:

Dr.-Ing. Martin Thedens

Position:

Head of Section "Flameproof Enclosures"

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:

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





# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0004

Date of Issue: 2008-05-20

Issue No.: 1

Page 2 of 5

Manufacturer: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

#### 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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/PTB/ExTR08.0008/00

#### Quality Assessment Report:

DE/TPS/QAR08.0001/00



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0004

Date of Issue: 2008-05-20

Issue No.: 1

Page 3 of 5

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The Connection and Junction Box type 06. .... und 16. .... consists of enclosures out of polyester in the type of protection Increased Safety "e" and Protection by enclosure "tD", 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 housing area for intrinsically safe circuits is 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.

**CONDITIONS OF CERTIFICATION: NO**



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0004

Date of Issue: 2008-05-20

Issue No.: 1

Page 4 of 5

## EQUIPMENT(continued):

### Technical data

Rated voltage:*	up to 1500 V
Rated current:*	max. 400 A
Rated wire range:*	max. 240 mm <sup>2</sup>
Protective conductor section:*	max. 120 mm <sup>2</sup>
*) according to terminal type used	

<b>Protection against contact, foreign bodies and water</b>
IP 66 acc. to IEC 60529

### Remarks

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.

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.

The maximum number of terminal blocks that can be fitted has been fixed in the data sheets on the basis of a calculation program (see Annex).

**Sizes, Ambient temperature, Nomenclature, Notes for manufacturing and operation and Data Sheets with the maximum number of terminal blocks are listed in the Annex.**



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0004

Date of Issue: 2008-05-20

Issue No.: 1

Page 5 of 5

## DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

The Annex has been attached.

**Annexe:** Annex-IECEX\_PTB\_08\_0004.pdf



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 08.0003U issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: **2008-03-12** Page 1 of 5

Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

Electrical Apparatus: **Empty Enclosure Type 26. ....**  
Optional accessory:

Type of Protection: **Increased Safety, Protection by Enclosures**

Marking: **Ex e II**  
**Ex tD A21 IP66**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Martin Thedens

Position:

Head of Section "Flameproof Enclosures"

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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 08.0003U

Date of Issue: 2008-03-12

Issue No.: 0

Page 2 of 5

Manufacturer: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

#### 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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/PTB/ExTR08.0007/00

#### Quality Assessment Report:

DE/TPS/QAR08.0001/00



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 08.0003U

Date of Issue: 2008-03-12

Issue No.: 0

Page 3 of 5

## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

#### Description of equipment

Empty enclosure of type 26. ...., made of polyester, which may be provided with flanges and a glass or plastic inspection window.

#### Nomenclature

26.	..	..	..
1	2	3	4

- 1: Material polyester
- 2: Length
- 3: Width
- 4: Depth

#### CONDITIONS OF CERTIFICATION: NO





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 08.0003U

Date of Issue: 2008-03-12

Issue No.: 0

Page 4 of 5

**EQUIPMENT(continued):****Technical data**

Type 26.08 08 06 to 26.41 40 20 (Ex-standard-enclosure)		Length	Width	Depth
	min.	80 mm	75 mm	56,5 mm
	max.	400 mm	405 mm	200 mm
Type 26.88 01 00 to 26.88 03 00 (Ex-Okta Box-enclosure)		Length	Width	Depth
	min.	80 mm	80 mm	75,5 mm
	max.	160 mm	160 mm	93 mm
Type 26.14 01 00 to 26.14 03 00 (Ex-PF-enclosure)		Length	Width	Depth
	min.	270 mm	170 mm	135 mm
	max.	540 mm	270 mm	135 mm
Type 26.12 20 00 to 26.20 30 00 (Mini-Polyglas-Ex-enclosure)		Length	Width	Depth
	min.	201 mm	123 mm	101 mm
	max.	300 mm	200 mm	169 mm
Typ 26.30 40 00 to 26.40 60 00 (Polyglas-Ex-enclosure)		Length	Width	Depth
	min.	400 mm	300 mm	202 mm
	max.	600 mm	400 mm	252 mm



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 08.0003U

Date of Issue: 2008-03-12

Issue No.: 0

Page 5 of 5

## Additional Information:

### Technical data (continued)

<b>Ambient temperature</b>
-55 °C to +135 °C with Silicon gasket (Sico, Silex and Gummi Jäger) and HF gasket (Chomerics)
-40 °C to +100 °C with HF gasket (Neuhauss Elektronik, Bavaria Elektronik)
-40 °C to +100 °C with PU Foam (Sonderhoff)
-20 °C to +100 °C with (EPDM HF gasket Meteor)
-20 °C to +100 °C with EPDM gasket
-20 °C to + 85 °C with CR and NBR gasket
-20 °C to +100 °C with window out of glas or conductive polycarbonate
-50 °C to +135 °C with PC-pane mono duro clear 8099

  

<b>Protection against contact, foreign bodies and water</b>
IP 66 acc. to IEC 60529



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 08.0006      issue No.: 0  
Status: **Current**  
Date of Issue: **2008-03-07**      Page 1 of 4

Certificate history:

Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

Electrical Apparatus: **Connection and Junction Box Type 05. .... and 15. ....**  
Optional accessory:

Type of Protection: **Increased Safety, Intrinsic Safety, Protection by Enclosures**

Marking: **Ex e Ia II, IIC T6, T5, T4**  
**Ex tD A21 IP66 T 85 °C, T 100 °C, T 135 °C**  
**Tamb -55 °C to +135 °C**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of Section "Flameproof Enclosures"

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:

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





# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0006

Date of Issue: 2008-03-07

Issue No.: 0

Page 2 of 4

Manufacturer: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/PTB/ExTR08.0006/00

##### Quality Assessment Report:

DE/TPS/QAR08.0001/00



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0006

Date of Issue: 2008-03-07

Issue No.: 0

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The Connection and Junction Box type 05. .... und 15. .... consists of enclosures out of aluminium in the type of protection Increased Safety "e" and Protection by enclosure "tD", 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.

### CONDITIONS OF CERTIFICATION: NO



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0006

Date of Issue: 2008-03-07

Issue No.: 0

Page 4 of 4

## EQUIPMENT(continued):

### Technical data

Rated voltage:*	up to 1500 V
Rated current:*	max. 500 A
Rated wire range:*	max. 240 mm <sup>2</sup>
Protective conductor section:*	max. 120 mm <sup>2</sup>
*) according to terminal type used	

<b>Protection against contact, foreign bodies and water</b>
IP 66 acc. to IEC 60529

### Remarks

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, etc. The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility.

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.

The maximum number of terminal blocks that can be fitted has been fixed in the data sheets on the basis of a calculation program (see Annex).

Ambient temperature, Nomenclature, Notes for manufacturing and operation and Data Sheets with the maximum number of terminal blocks are listed in the Annex.

Annexe: Annex-IECEX\_PTB\_08\_0006.pdf



# 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](http://www.iecex.com)

Certificate No.: **IECEX PTB 08.0005U** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2008-03-07** Page 1 of 4

Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

Electrical Apparatus: **Empty Enclosure Type 25. ....**  
Optional accessory:

Type of Protection: **Increased Safety, Protection by enclosures**

Marking: **Ex e II**  
**Ex tD A21 IP66**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of Section "Flameproof Enclosures"

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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 08.0005U

Date of Issue: 2008-03-07

Issue No.: 0

Page 2 of 4

Manufacturer: **ROSE Systemtechnik GmbH**  
Erbeweg 13  
32457 Porta Westfalica  
Germany

#### 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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/PTB/ExTR08.0004/00

#### Quality Assessment Report:

DE/TPS/QAR08.0001/00





# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0005U

Date of Issue: 2008-03-07

Issue No.: 0

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

Empty enclosure type 25. ...., made of aluminium, which may be provided with flanges and a glass or plastic inspection window.

#### Technical data

Sizes	length	width	depth
min	58 mm	64 mm	34 mm
max	600 mm	600 mm	202,5 mm

CONDITIONS OF CERTIFICATION: NO



# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 08.0005U

Date of Issue: 2008-03-07

Issue No.: 0

Page 4 of 4

**EQUIPMENT(continued):**

**Technical Data (continued)**

<b>Ambient temperature</b>
-55 °C to +135 °C with Silicon gasket (Sico, Silex and Gummi Jäger) and HF gasket (Chomerics)
-40 °C to +100 °C with HF gasket (Neuhaus Elektronik, Bavaria Elektronik)
-40 °C to +100 °C with PU Foam (Sonderhoff)
-20 °C to +100 °C with EPDM HF gasket (Metor)
-20 °C to +100 °C with EPDM gasket
-20 °C to + 85 °C with CR and NBR gasket
-20 °C to +100 °C with window out of glas or conductive polycarbonate
<b>Protection against contact, foreign bodies and water</b>
IP 66 acc. to IEC 60529

**Nomenclature**

25.	..	..	..
1	2	3	4

- 1: Material aluminium
- 2: Length
- 3: Width
- 4: Depth



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 07.0060 Issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: **2007-11-05** Page 1 of 4

Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
Germany

Electrical Apparatus: **Connection and Junction Box Type 35. .... and 36. ....**  
Optional accessory:

Type of Protection: **Increased Safety, Protection by Enclosures**

Marking: **Ex e Ia IIC T6, T5, T4**  
**Ex tD A21 IP66 T 85°C, T 100 °C, T 135 °C**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Uwe Klausmeyer

Position:

Head of Section "Flameproof Enclosures"

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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 07.0060

Date of Issue: 2007-11-05

Issue No.: 0

Page 2 of 4

Manufacturer: **ROSE Systemtechnik GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
Germany

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/PTB/ExTR07.0060/00

Quality Assessment Report:

DE/TPS/QAR08.0001/00



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 07.0060

Date of Issue: 2007-11-05

Issue No.: 0

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description of equipment

The Connection and Junction Box type 35. .... und 36. .... consists of enclosures out of sheet steel or stainless steel in the type of protection Increased Safety "e" and Protection by enclosure "tD", 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.

### CONDITIONS OF CERTIFICATION: NO



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 07.0060

Date of Issue: 2007-11-05

Issue No.: 0

Page 4 of 4

## EQUIPMENT(continued):

### Technical data

Rated voltage:*	up to 1500 V
Rated current:*	max. 500 A
Rated wire range:*	max. 240 mm <sup>2</sup>
Protective conductor section:*	max. 120 mm <sup>2</sup>
*) according to terminal type used	

**Protection against contact, foreign bodies and water**  
IP 66 acc. to IEC 60529

### Remarks

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.

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.

The maximum number of terminal blocks that can be fitted has been fixed in the data sheets on the basis of a calculation program (see Annex).

Ambient temperature, Nomenclature, Notes for manufacturing and operation and Data Sheets with the maximum number of terminal blocks are listed in the Annex.

**Annexe:** Annex-IECEx\_PTB\_07\_0060.pdf



# 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](http://www.iecex.com)

Certificate No.: IECEx PTB 07.0059U issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2008-01-18** Page 1 of 4

Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
Germany

Electrical Apparatus: **Empty Enclosure Type 34. ....**  
Optional accessory:

Type of Protection: **Increased Safety, Protection by Enclosures**

Marking: **Ex e II**  
**Ex tD A21 IP66**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Martin Thedens

Position: Head of Section "Flameproof Enclosures"

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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 07.0059U

Date of Issue: 2008-01-18

Issue No.: 0

Page 2 of 4

Manufacturer: **ROSE Systemtechnik GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
Germany

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/PTB/ExTR07.0059/00

Quality Assessment Report:

DE/TPS/QAR08.0001/00





# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 07.0059U

Date of Issue: 2008-01-18

Issue No.: 0

Page 3 of 4

## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

#### Description of equipment

Empty enclosure of type 34. ...., made from sheet steel or stainless steel, which may be provided with flanges and a glass or plastic inspection window.

#### Technical data

Sizes	length	width	depth
Enclosure			
min	100 mm	100 mm	60 mm
max	1200 mm	2000 mm	500 mm
Enclosure with flanges			
min	120 mm	120 mm	90 mm
max	1200 mm	2000 mm	500 mm

CONDITIONS OF CERTIFICATION: NO



# IECEx Certificate of Conformity

Certificate No.: IECEx PTB 07.0059U

Date of Issue: 2008-01-18

Issue No.: 0

Page 4 of 4

## EQUIPMENT(continued):

### Technical data (continued)

<b>Ambient temperature</b>
-55 °C to +135 °C with Silicon gasket (Sico, Silex and Gummi Jäger)
-40 °C to +100 °C with HF gasket (Neuhaus Elektronik, Bavaria Elektronik)
-40 °C to +100 °C with PU Foam (Sonderhoff)
-20 °C to +100 °C with EPDM HF gasket (Meteor)
-20 °C to +100 °C with EPDM gasket
-20 °C to + 85 °C with CR and NBR gasket
-20 °C to +100 °C with window out of glas or conductive polycarbonate
<b>Protection against contact, foreign bodies and water</b>
IP 66 acc. to IEC 60529

### Nomenclature

34.	..	..	..
1	2	3	4

1: Material sheet steel or stainless steel

2: Length

3: Width

4: Depth