



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

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx PTB 07.0059U**

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Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2020-09-23)

Issue 3 (2016-09-06)

Issue 2 (2012-02-29)

Issue 1 (2010-12-17)

Issue 0 (2008-01-18)

Date of Issue: **2022-05-02**

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

Ex Component: **Empty Enclosure Type 34.\*\*\*, RMS R3\*\*\*\*\* and RMS R4\*\*\*\*\***

*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*

Type of Protection: **Increased Safety "eb", Protection by Enclosures "tb"**

Marking: **Ex eb IIC Gb**  
**Ex tb IIIC Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr. Ing. Detlev Markus**

Position:

**Head of Department "Explosion Protection in Energy Technology"**

Signature:  
(for printed version)

*D. Markus*  
*04.05.22*

Date:  
(for printed version)

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Certificate issued by:

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





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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 component 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 60079-31:2022-01** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

**DE/PTB/ExTR07.0059/05**

Quality Assessment Report:

**DE/EPS/QAR17.0003/42**



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**Ex Component(s) covered by this certificate is described below:**

## **Description of equipment**

Empty enclosure of type 34.\*\*\*\*\*, RMS R3\*\*\*\*\* and RMS R4\*\*\*\*\*, made from sheet steel or stainless steel, which may be provided with flanges and a glass or plastic inspection window.

Technical data and Nomenclature see attachment.

## **SCHEDULE OF LIMITATIONS:**

- The empty enclosure 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.
- Installation of electrical components requires a further assessment by an ExCB.





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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- Increase of the max. allowed construction depth to 1000 mm
- Supplement the use of a flange
- Update to the current standards

## **Annex:**

[COCA070059U-5.pdf](#)



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

Electrical Apparatus: Empty Enclosure Type 34.\*\* \*\* \*\*, RMS R3\*\*\*\*\* and  
RMS R4\*\*\*\*\*

### Description

Empty enclosure of type 34.\*\* \*\* \*\*, RMS R3\*\*\*\*\* and RMS R4\*\*\*\*\*, made from sheet steel or stainless steel, which may be provided with flanges and a glass or plastic inspection window.

### Technical data

Sizes	Height	Width	Depth
Enclosure			
min	100 mm	100 mm	61 mm
max	1200 mm	2000 mm	1000 mm
Enclosure with flanges			
min	120 mm	120 mm	90 mm
max	1200 mm	2000 mm	1000 mm
Service temperature	-60 °C to +135 °C with glass window -60 °C to +135 °C with silicone gasket -60 °C to +135 °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		
Protection against contact, foreign bodies and water:	IP 66 acc. to IEC 60529		

### Nomenclature

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

1	Type, material sheet steel or stainless steel
2	Height or product line (see below)
3	Width or number depending on product line
4	Depth or number depending on product line

### Physikalisch-Technische Bundesanstalt (PTB)

Bundesallee 100, 38116 Braunschweig, Germany  
Postfach 33 45, 38023 Braunschweig, Germany  
Telephone +49 531 592-0, Telefax +49 531 592-3605



R	*	*	*	*	*	*	*	*	*
	1	2	3	4	5	6	7	8	9

1	3	Ex empty enclosure, Material: 1.4301
	4	Ex empty enclosure, Material: 1.4404
2	Enclosure size	
3	Cover design	
4	Cover mounting	
5	Hinge design	
6	Gasket	
7	External mounting brackets	
8	Flange configuration	
9	Mounting plate mounted	

### Product lines

Ex stainless steel standard	Type 34.*****
Ex stainless steel cabinets	Type 34.00****
Ex stainless steel flange 1. generation	Type 34.*****
Ex stainless steel flange 2. generation	Type 34.03****
ProtEx electropolish	Type 34.04****
ProtEx electropolish / return flange	Type 34.05****
ProtEx grinded	Type 34.06****
ProtEx grinded / return flange	Type 34.07****
Captive Clamp	Type 34.08****
Ex stainless steel special sizes	Type 34.*****