



# 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 08.0006X

Issue No: 2

Certificate history:

Status: Current

Issue No. 2 (2018-03-27)

Issue No. 1 (2012-02-29)

Date of Issue: 2018-03-27

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Issue No. 0 (2008-03-07)

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

Equipment: Connection and Junction Box and Control Box Type 05 XX YY ZZ and 15 XX YY ZZ

Optional accessory:

Type of Protection: Different

Marking:

Ex db eb Ia (a) mb IIC T4, T5, T6 Gb

Ex tb IIC T85°C, T100°C, T135°C Db

Approved for issue on behalf of the IECEx

Dr.-Ing. Detlev Markus

Commission Body:

Position:

Head of Working Group "Explosion Protection in Energy Technology"

Signature:

(Handwritten signature)

Date:

27.03.18

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

Certificate issued by:



# IECEX Certificate of Conformity

TM

Certificate No: IECEx PTB 08.0006X Issue No: 2  
Date of Issue: 2018-03-27 Page 2 of 4  
Manufacturer: ROSE Systemtechnik GmbH  
Erbeweg 13-15  
32457 Porta Westfalica  
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 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 : 2017</b><br>Edition:7.0    | Explosive atmospheres - Part 0: Equipment - General requirements                     |
| <b>IEC 60079-1 : 2014-06</b><br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"    |
| <b>IEC 60079-11 : 2011</b><br>Edition:6.0   | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"        |
| <b>IEC 60079-18 : 2014</b><br>Edition:4.0   | Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"           |
| <b>IEC 60079-31 : 2013</b><br>Edition:2     | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| <b>IEC 60079-7 : 2015</b><br>Edition:5.0    | Explosive atmospheres - Part 7: Equipment protection by increased safety "e"         |

*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/ExTR08.0006/02](#)

Quality Assessment Report:

[DE/EPS/QAR17.0003/02](#)

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## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

#### Description of equipment

The power distribution, switch and control gear assembly, type 05.XX XX XX (Increased Safety) and 15.XX XX XX (Intrinsic Safety), consists of an aluminium enclosure designed to Increased Safety "e" or Protection by Enclosure "tb" type of protection, which can be provided with flanges, if necessary.

It is used to accommodate field bus distributors and terminals, and can be provided with actuator elements and pilot equipment, if necessary. 'Ex' cable glands are used for connection.

All installed and attached components are tested and certified with 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:

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.



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

Update of the state of standards IEC 60079-0:2011 (Ed. 6), IEC 60079-7:2015 (Ed. 5),  
IEC 60079-11:2011 (Ed. 6), IEC 60079-31:2013 (Ed. 2)

Implementation of Specific Conditions of Use for an enclosure with a coating

### Annex:

Annex\_Manufacturing\_Locations\_080006X-02.pdf

COQA\_08-0006X-02.pdf

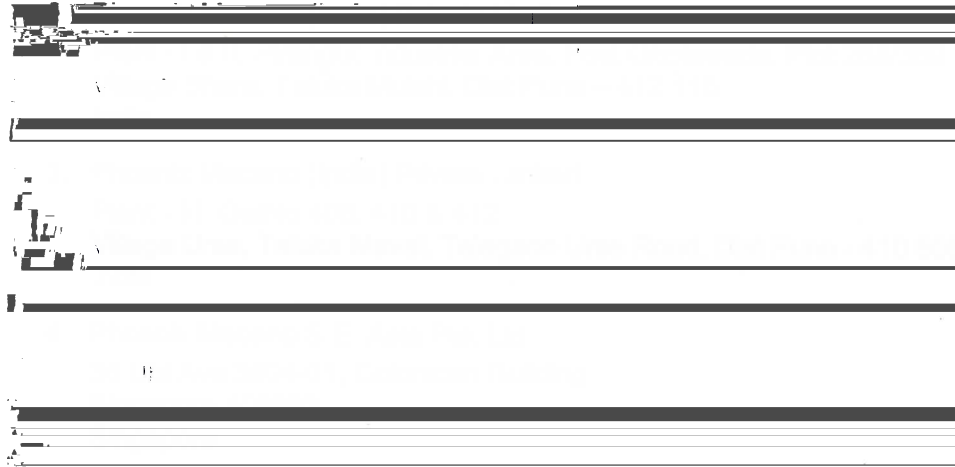


Applicant: ROSE Systemtechnik GmbH  
Erbeweg 13-15  
32457 Porta Westfalica  
Germany

Electrical Apparatus: Power distribution switch and control gear assembly type

**List of Manufacturing Locations:**

1. Rose Systemtechnik GmbH  
Erbeweg 13-15  
32457 Porta Westfalica  
Germany



Plant - I & II, Pirangut Industrial Area, Post Ghotawade, Plot 288/389  
Village Bhare, Taluka Mulshi, Dist Pune – 412 115  
India

3. Phoenix Mecano (India) Private Limited  
Plant - III, GatNo 408, 410 & 412  
Village Urse, Taluka Maval, Talegaon Urse Road, Dist Pune - 410 506  
India
4. Phoenix Mecano S.E. Asia Pte. Ltd.  
35 Ubi Ave 3#04-01, Colorscan Building  
Singapore 408863  
Singapore



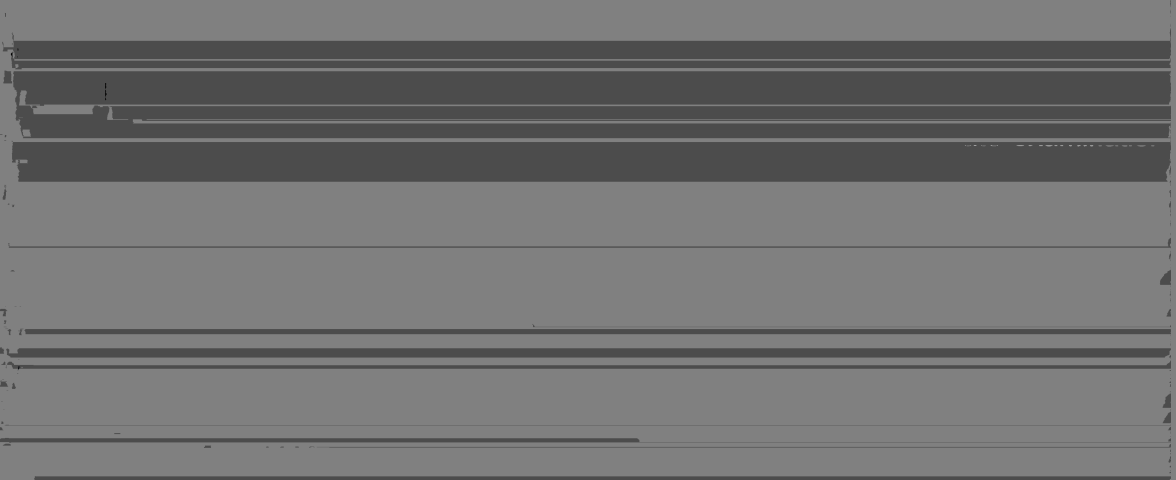
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8. PM Komponenten B. V.  
Havenstraat 100  
7005 AG Doetinchem  
Netherlands
  
  9. Mecano Components Co. Ltd/012  
No. 1001, Jiaqian Road, Nanxiang, Jiading District  
Shanghai P.R.C. 201802  
China

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

Electrical Apparatus: Power distribution, switch and control gear assembly type  
05.XX XX XX and 15.XX XX XX

**Description**

The power distribution, switch and control gear assembly, type 05.XX XX XX and 15.XX XX XX, consists of an aluminium enclosure designed to Increased Safety "e" or Protection by Enclosure "th" type of protection, which can be provided with flanges, if necessary.



It is used to accommodate field bus distributors and terminals, and can be provided with actuator elements and pilot equipment, if necessary.

'Ex' cable glands are used for connection.

All installed and attached components are tested and certified with a separate examination certificate.

Technical Data

Ambient temperature:

- 55 °C to +90 °C: with gasket out of silicon
- 40 °C to +90 °C: with gasket out of HF
- 40 °C to +90 °C with PU-foam
- 20 °C to +90 °C with gasket out of CR
- 50 °C to +85 °C with window out of PC
- 20 °C to +90 °C with window out of glass

Degree of protection: IP66

|                |  |
|----------------|--|
| Technical data |  |
|----------------|--|



Enclosure standard and max. Power Dissipation of Aluminium Enclosures

| No. | Product Type | Height [mm] | Width [mm] | Depth [mm] | Max. Power Dissipation [W] (dT 40 °K) |
|-----|--------------|-------------|------------|------------|---------------------------------------|
| 1   | XX. 06 06 03 | 64          | 58         | 34         | 5                                     |
| 2   | XX. 06 10 03 | 64          | 98         | 34         | 8                                     |
| 3   | XX. 06 15 03 | 64          | 150        | 34         | 11                                    |
| 4   | XX. 08 08 06 | 80          | 75         | 57         | 10                                    |
| 5   | XX. 08 13 06 | 80          | 125        | 57         | 15                                    |
| 6   | XX. 08 18 06 | 80          | 175        | 57         | 20                                    |
| 7   | XX. 08 25 05 | 80          | 250        | 52         | 25                                    |
| 8   | XX. 10 10 08 | 100         | 100        | 81         | 19                                    |
| 9   | XX. 10 16 08 | 100         | 160        | 81         | 26                                    |
| 10  | XX. 10 20 08 | 100         | 200        | 81         | 31                                    |
| 11  | XX. 12 12 08 | 120         | 122        | 81         | 24                                    |
| 12  | XX. 12 12 09 | 120         | 122        | 91         | 26                                    |
| 13  | XX. 12 22 08 | 120         | 220        | 81         | 38                                    |
| 14  | XX. 12 22 09 | 120         | 220        | 91         | 40                                    |
| 15  | XX. 12 22 12 | 120         | 220        | 121        | 45                                    |
| 16  | XX. 12 36 08 | 120         | 360        | 81         | 57                                    |
| 17  | XX. 14 14 09 | 140         | 140        | 91         | 32                                    |
| 18  | XX. 14 20 09 | 140         | 200        | 91         | 42                                    |
| 19  | XX. 16 16 09 | 160         | 160        | 91         | 39                                    |
| 20  | XX. 16 26 09 | 160         | 260        | 91         | 56                                    |
| 21  | XX. 16 36 09 | 160         | 360        | 91         | 73                                    |
| 22  | XX. 16 56 09 | 160         | 560        | 91         | 107                                   |
| 23  | XX. 18 18 10 | 180         | 180        | 101        | 49                                    |
| 24  | XX. 18 28 10 | 180         | 280        | 101        | 68                                    |
| 25  | XX. 23 10 11 | 230         | 100        | 111        | 45                                    |
| 26  | XX. 23 20 11 | 232         | 202        | 111        | 68                                    |
| 27  | XX. 23 20 18 | 232         | 202        | 181        | 92                                    |
| 28  | XX. 23 28 11 | 230         | 280        | 111        | 86                                    |
| 29  | XX. 23 33 11 | 230         | 330        | 111        | 97                                    |
| 30  | XX. 23 33 18 | 230         | 330        | 181        | 127                                   |
| 31  | XX. 23 40 11 | 230         | 400        | 111        | 113                                   |

**Physikalisch-Technische Bundesanstalt (PTB)**

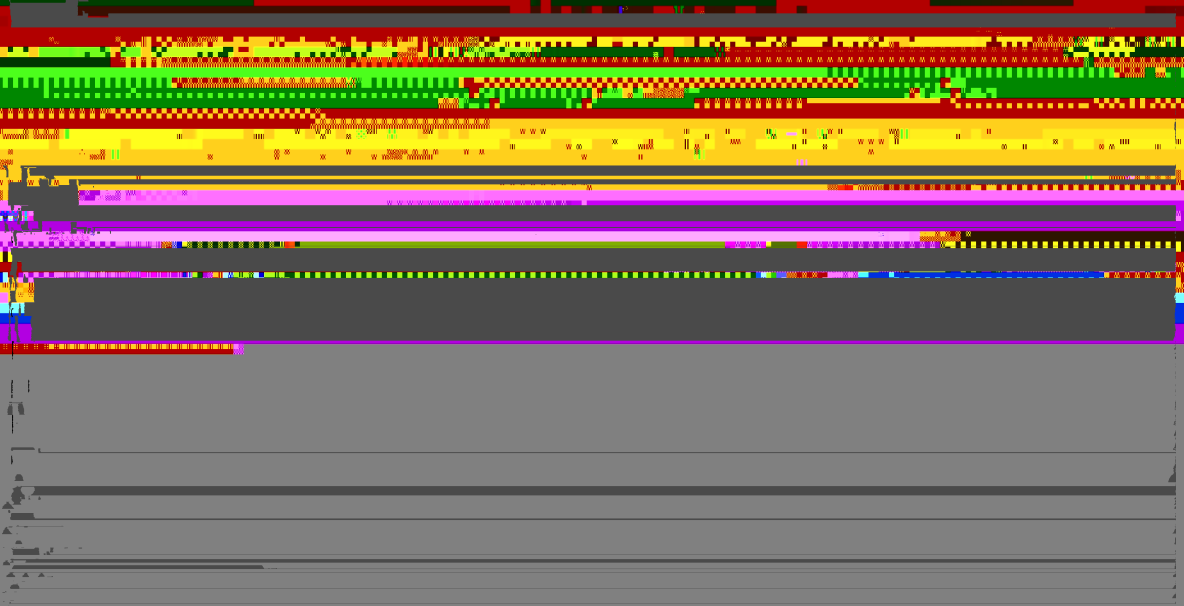
Bundesallee 100, 38116 Braunschweig, Germany  
Postfach 33 45, 38023 Braunschweig, Germany  
Telephone +49 531 592-0, Telefax +49 531 592-3605





**Additional Advices**

Components attached or installed (terminal compartments, bushings, Ex-type cable glands, connections) shall be of a technical standard that at least complies with the specifications of the cover itself, 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



verifiable manner in compliance with the QM system.  
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 EN 60079-14 are complied with.  
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.