



# 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 17PB-08-0000X

Issue No: 2

Certificate history:

Issue No. 2 (2018-03-27)

Issue No. 1 (2012-02-29)

Issue No. 0 (2008-03-07)

Status: Current

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Date of Issue: 2018-03-27

Applicant: WAGO Systems International GmbH

Erhebung 13-15

Marking:

Ex db eb ia [ia] mb IIC T4, T5, T6 Gb

Ex tb IIC T85°C, T100°C, T135°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Working Group "Explosion Protection in Energy Technology"

Signature:  
(for printed version)

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> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-18 : 2014</b> Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition:5.0	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/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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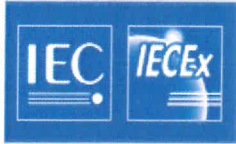
## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- 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:

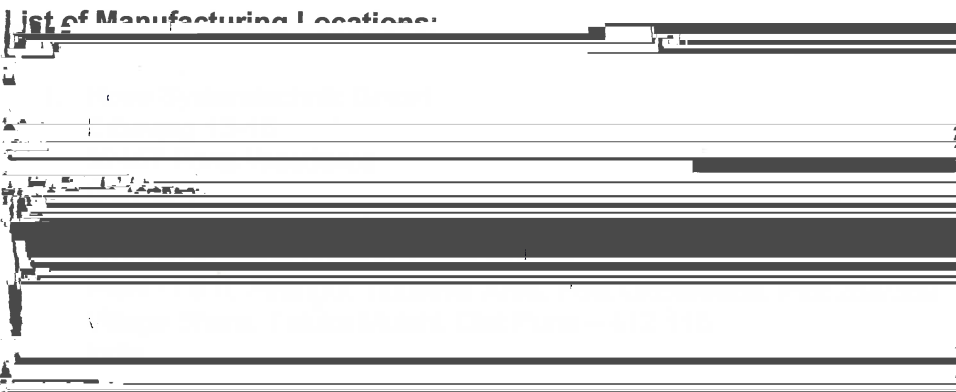
[Annex\\_Manufacturing\\_Locations\\_080006X\\_02.pdf](#)

[CCCA\\_08.0006X\\_02.pdf](#)

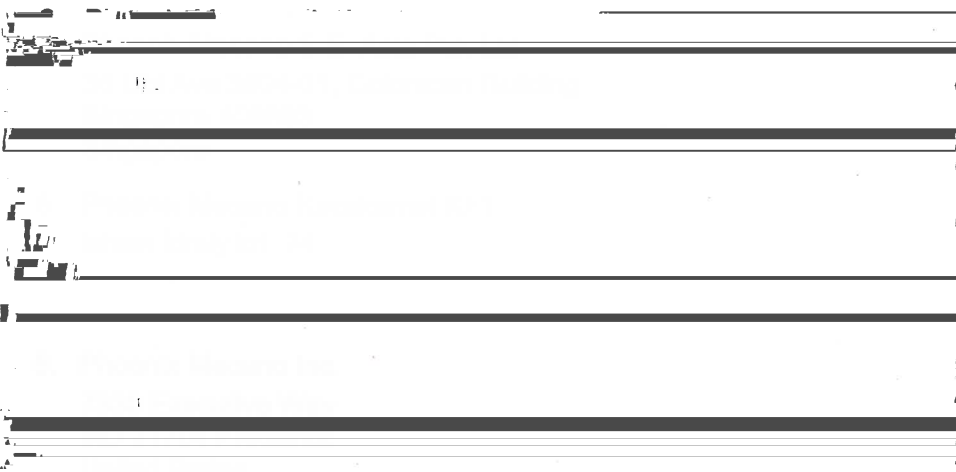


Applicant: ROSE Systemtechnik GmbH  
Erbeweg 13-15  
32457 Porta Westfalica  
Germany

Electrical Apparatus: Power distribution switch and control gear assemblies



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



- 
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

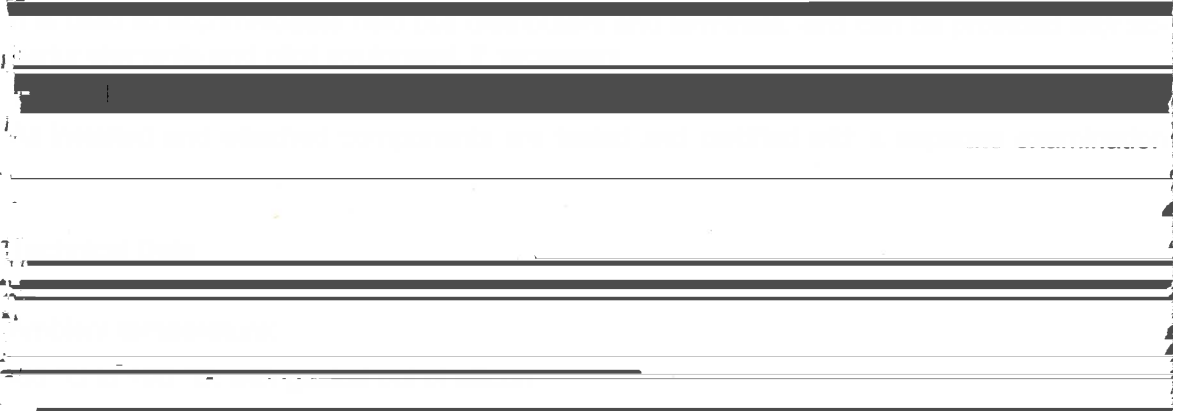


Applicant: ROSE Systemtechnik GmbH  
 Erbeweg 13-15  
 32457 Porta Westfalica  
 Germany

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 "fb" 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	
Rated voltage:	Up to 1500 V



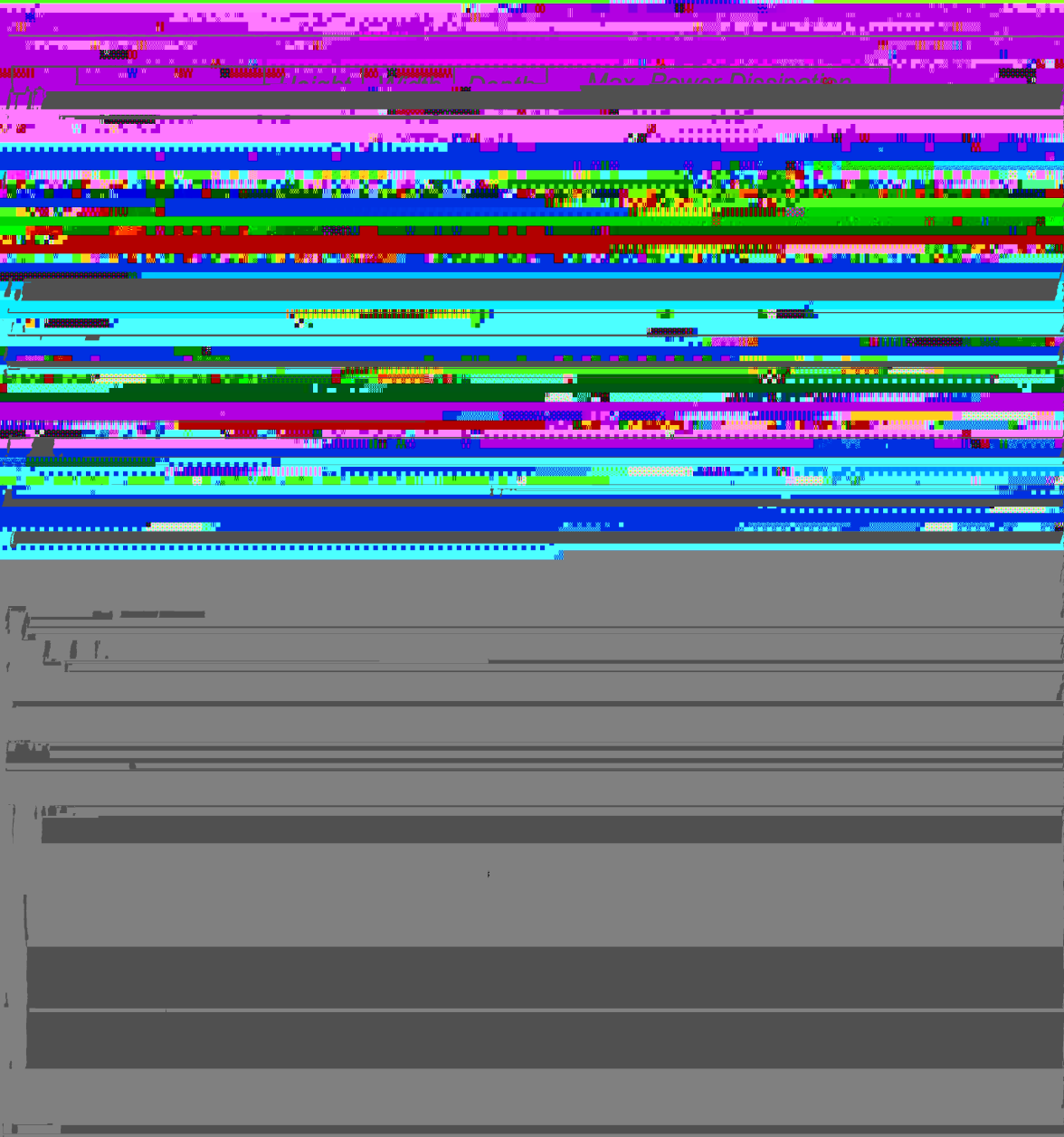
Enclosure standard and max. Power Dissipation of Aluminium Enclosures

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



Attachment to Certificate

CEX.P.TB.08.0006X- Issue 2



- 1: Type, material aluminium
- 2: Length
- 3: Width
- 4: Depth

Type reference:            Increased Safety  
                                   05.XX XX XX Ex Aluminium standard

                                  Intrinsic Safety / mixed assembled  
                                   15.XX XX XX Ex Aluminium standard

### Additional Advices

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.

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.