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

[redacted] PTB [redacted]

Issue No: 5

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Certificate history:
Issue No. 5 (2018-03-26)
Issue No. 4 (2014-01-15)
Issue No. 3 (2012-03-12)
Issue No. 2 (2008-11-24)
Issue No. 1 (2008-05-20)
Issue No. 0 (2008-04-29)

Status: **Current**

Date of Issue: **2018-03-26**

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

Equipment: **Connection and Junction Box and Control Box, type 06.XX XX XX and 16.XX XX XX**
Optional accessory:

Type of Protection: **Different**

Marking:

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

Ex tb IIIC T85 °C, T100 °C, T135 °C Db

Approved for issue on behalf of the IECEx Certification Body: Dr.-Ing. Detlev Markus

Position: Head of Section "Explosion Protection in Energy Technology"

Signature:
(for printed version)

Date: 27.07.18

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.

Certificate issued by:

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

PTB
Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

IECEx Certificate of Conformity

Certificate No:	IECEx PTB 08.0004
Date of Issue:	**2018-03-26**
Manufacturer:	**ROSE Systemtechnik GmbH** Erbeweg 13 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:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure **"t"**
IEC 60079-7 : 2015 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/ExTR08.0003/03

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 06.XX XX XX and 16.XX XX XX, consists of a polyester 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 if necessary.
'Ex' cable glands are used for connection. All installed and attached components are tested and certified with a separate examination certificate.

SPECIFIC CONDITIONS OF USE: NO

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

Update of the state of standards IEC 60079-0:2018 (Ed. 7), IEC 60079-7:2015 (Ed. 5), IEC 60079-11:2011(Ed.6); IEC 60079-18:2015 (Ed.2); IEC 60079-31:2013 (Ed. 2)

Annex:

COCA_080004-05.pdf

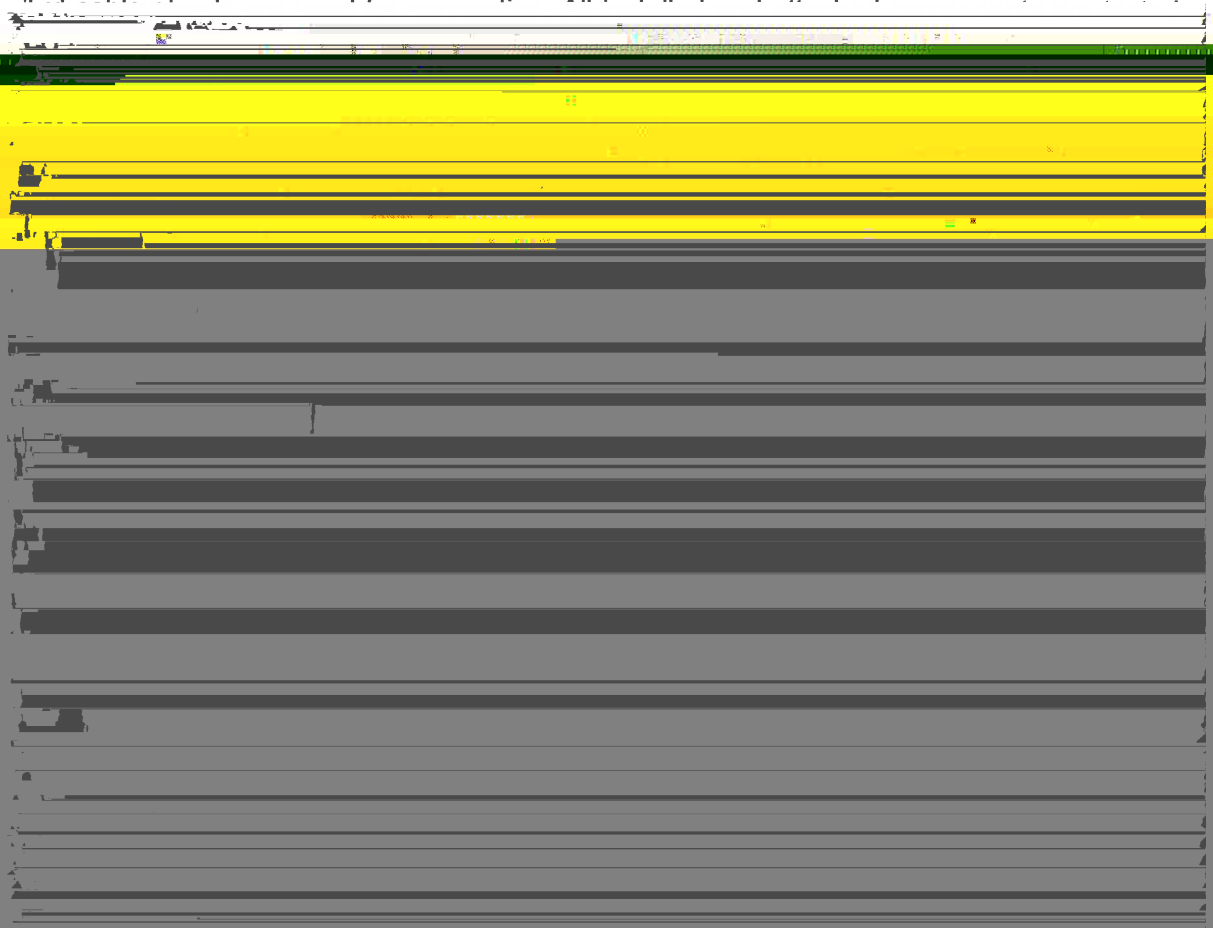
Annex_Manufacturing_Locations_080004-05.pdf

Attachment to Certificate
IECEx PTB 08.0004 Issue 5

Applicant:	ROSE Systemtechnik GmbH Erbeweg 13-15 32457 Porta Westfalica Germany
Electrical Apparatus:	Power distribution, switch and control gear assembly Type 06. XX XX XX and 16.XX XX XX

Description

The power distribution, switch and control gear assembly, type 06. XX XX XX and 16.XX XX XX, consists of a polyester 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 if necessary.



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

Nomenclature

XX	**	**	**
1	2	3	4

1: Type material Polyester
2: Length
3: Width
4: Depth

Enclosure standard and max. Power Dissipation of **Ex Polyester Enclosure**:

Type reference:

Empty enclosure
26.XX XX XX Ex Polyester standard

Increased Safety
06.XX XX XX Ex Polyester standard

Intrinsic Safety / mixed assembled
16.XX XX XX Ex Polyester standard

No.	Product Type	Height [mm]	Width [mm]	Depth [mm]	Max. Power Dissipation [W] (dT 40 °K)
1	XX.08 08 06	75	80	56	5
2	XX.08 08 08	75	80	75	7
3	XX.08 11 06	75	110	56	6
4	XX.08 11 08	75	110	75	8
5	XX.08 16 06	75	160	56	9

No.	Product Type	Height [mm]	Width [mm]	Depth [mm]	Max. Power Dissipation [W] (dT 40 °K)
19	XX.25 40 12	250	400	121	57
20	XX.25 40 16	250	400	161	68
21	XX.25 60 12	250	600	121	78
22	XX.36 36 09	360	360	91	58
23	XX.41 40 12	405	400	121	78
24	XX.41 40 20	405	400	201	107

Enclosure standard and max. Power Dissipation of **Polyester Ex Okta Box Enclosure**:

Type reference:

Empty enclosure
26.88 XX XX Ex Okta Box

Increased Safety
06.88 XX XX Ex Okta Box

Intrinsic Safety / mixed assembled
16.88 XX XX Ex Okta Box

No.	Product Type	Height [mm]	Width [mm]	Depth [mm]	Max. Power Dissipation [W] (dT 40 °K)
1	XX.XX 01 00	81	81	75	7
2	XX.XX 02 00	121	121	75	12
3	XX.XX 03 00	161	161	93	19
4	XX.XX 04 00	200	200	125	31

Enclosure standard and max. Power Dissipation of **Polyester Ex PF Enclosure**:

Type reference:

Empty enclosure
26.14 XX XX Ex PF Enclosure

Increased Safety
06.14 XX XX Ex PF Enclosure

Intrinsic Safety / mixed assembled
16.14 XX XX Ex PF Enclosure

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Postfach 33 45, 38023 Braunschweig, Germany
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No.	Product Type	Height [mm]	Width [mm]	Depth [mm]	Max. Power Dissipation [W] (dT 40 °K)
1	XX.XX 01 00	170	270	136	36
2	XX.XX 02 00	270	270	136	49
3	XX.XX 03 00	270	541	136	81

Enclosure standard and max. Power Dissipation of **Polyester Ex Mini Polyglas and Ex Polyglas Enclosure:**

Type reference:

Empty enclosure
26.XX XX XX Ex Mini Polyglas

Increased Safety
06.XX XX XX Ex Mini Polyglas

Intrinsic Safety / mixed assembled
16.XX XX XX Ex Mini Polyglas

No.	Product Type	Height [mm]	Width [mm]	Depth [mm]	Max. Power Dissipation [W] (dT 40 °K)
1	XX.12 20 00	120	200	100	19
2	XX.16 26 00	160	260	100	26
3	XX.16 34 00	160	340	100	33
4	XX.20 15 00	200	150	100	23
5	XX.20 20 00	200	200	168	39
6	XX.20 30 00	200	300	168	51
7	XX.30 40 00	405	305	202	88
8	XX.40 60 00	605	405	252	163

Enclosure standard and max. Power Dissipation of **Ex Polyester Combi Box:**

Type reference:

Empty enclosure
26.01 XX XX Ex Combi Box

Increased Safety
06.01 XX XX Ex Combi Box

Intrinsic Safety / mixed assembled
16.01 XX XX Ex Combi Box

No.	Product Type	Height [mm]	Width [mm]	Depth [mm]	Max. Power Dissipation [W] (dT 40 °K)
1	XX.XX 22 15	177	177	145	28
2	XX.XX 24 15	360	177	145	45
3	XX.XX 44 15	360	360	145	70

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

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.

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Attachment to Certificate

IECEx PTB 08.0004X Issue 5

Applicant:	ROSE Systemtechnik GmbH Erbeweg 13-15 32457 Porta Westfalica Germany
Electrical Apparatus:	Power distribution, switch and control gear assembly type 06.XX XX XX and 16.XX XX XX

List of Manufacturing Locations:

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

2. Phoenix Mecano (India) Private Limited
   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

5. Phoenix Mecano Kecskemet KFT
   Istvan Kiraly krt. 24
   6000 Kecskemet
   Hungary

6. Phoenix Mecano Inc.
   7330 Executive Way
   MD 21704 Frederick
   United States

7. PM Komponenten N. V.
   Karrewegstraat 124
   9800 Deinze
   Belgium

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