



# 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 DEK 18.0068U** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2019-12-20  
Applicant: **ROSE Systemtechnik GmbH**  
Erbeweg 13 - 15  
32457 Porta Westfalica  
**Germany**  
Ex Component: Enclosure Series IJB

*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: **Ex db, Ex tb**

Marking: Ex db IIB + H<sub>2</sub> Gb  
Ex db IIB Gb  
Ex tb IIIC Db

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

2019-12-20

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DEKRA Certification B.V.**  
Meander 1051  
6825 MJ Arnhem  
Netherlands





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

Additional manufacturing locations:

<b>Phoenix Mecano (India) Pvt. Ltd.</b> Plant - I & II: Pirangut Industrial Area, Post Ghotowade, Plot 388/389, Village Bhare, Taluka Mulshi Disit, Pune - 412 115 India	<b>Phoenix Mecano B.V.</b> Havenstraat 100 7005 AG Doetinchem Netherlands
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**See Annex 2 for all manufacturing locations**

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 equipment 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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/DEK/ExTR19.0034/00](#)

Quality Assessment Report:

[DE/EPS/QAR17.0003/19](#)



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

Enclosures Series IJB, made of aluminum, stainless steel or cast iron with a flanged cover, with or without display window(s), are intended to be used in potentially explosive atmospheres for the mounting of electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices.

The electrical connections are made by using separately certified cable glands or conduit entries.

Service temperature range:

- IJB 01 ... IJB 03: -20 °C or -60 °C to +135 °C
- IJB 04 ... IJB 06: -20 °C to +135 °C

Degree of protection IP66 according to IEC 60529 and IEC 60079-0.

For more detailed information, see Annex 1.

## SCHEDULE OF LIMITATIONS:

1. The application of the IJB enclosures shall be in accordance with the specified temperature limits.
2. For enclosures provided with a powder coating or liquid painting and intended for use in Group III applications, the user shall minimize the risk from electrostatic discharge by suitable selection and installation.
3. The maximum number of apertures, their maximum sizes and their positions are specified in the instruction manual IM.IJB.U
4. Oil-filled circuit-breakers and contactors shall not be used.
5. The content of the IJB enclosure may be placed in any arrangement provided that an area of at least 20 % (Group IIB) or 40 % (H<sub>2</sub>) of each cross-sectional area remains free. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12,5 mm.
6. The flame path of the cover differs from the values stated in IEC 60079-1. Contact the manufacturer for information on the dimensions of the flameproof joints.
7. The M8 or M10 fasteners are of grade A2-70 with a yield stress of at least 450 MPa and shall be applied with a minimum torque value of 58 Nm.

## Annexes:

[222966700 Annex 1.pdf](#)  
[222966700 Annex 2.pdf](#)