



# 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 KIWA 14.0005U Issue No: 0 Certificate history:  
Status: Current Page 1 of 3 Issue No. 0 (2015-04-21)  
Date of Issue: 2015-04-21  
Applicant: PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstrasse 8  
32825 BLOMBERG  
Germany  
Electrical Apparatus: Terminal blocks, type AKG 4-EX and type EK 135  
*Optional accessory:*  
Type of Protection: Ex e  
Marking: Ex eb IIC

Approved for issue on behalf of the IECEx  
Certification Body:

Pieter van Breugel

Position:

Certification Officer

Signature:  
(for printed version)

Date:

21 APRIL 2015

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:

Kiwa Nederland B.V. (Unit Kiwa ExVision)  
Wilmsdorf 50  
7327 AC Apeldoorn  
P.O. Box 137  
7300 AC Apeldoorn  
The Netherlands





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Manufacturer: PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstrasse 8  
32825 BLOMBERG  
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 electrical 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 : 2011 Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
IEC 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:4

*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:

[NL/KIWA/ExTR14.0007/00](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Connecting Terminal Block type AKG 4-EX and Power Terminal Block type EK 135 for mounting on a bus bar type NLS-CU 3/10 (3 mm x 10 mm). The terminal blocks are intended for the connection of copper conductors in enclosures in type of protection increased safety "e".

Rated service temperature range: AKG 4-EX: -60 °C to +125 °C  
EK 135: -60 °C to +180 °C

For technical data, see Annex 1.

### Schedule of Limitations

- The terminal blocks shall be mounted in an enclosure having one of the specific types of protection mentioned in IEC 60079-0, section 1.
- When mounted in an enclosure in type of protection Increased safety "e", the clearances and creepage distances to other live parts shall fulfil the requirements of IEC 60079-7, Table 1.
- When accessories are used, the instructions provided by the manufacturer shall be observed.

CONDITIONS OF CERTIFICATION: NO

### Annex:

[Annex 1 to IECEx Certificate of Conformity 14.0005U-Iss 0.pdf](#)

**Technical data**

	Type AKG 4-EX	Type EK 135
Rated cross section	4 mm <sup>2</sup>	25 mm <sup>2</sup>
Connecting capacity	0.5 - 6 mm <sup>2</sup> (rigid) 0.5 - 4 mm <sup>2</sup> (flexible)	0.75 - 35 mm <sup>2</sup> (rigid) 0.75 - 25 mm <sup>2</sup> (flexible)
Multi conductor connection (two conductors of the same cross section and conductor type)	0.5 - 2.5 mm <sup>2</sup> (rigid and flexible)	0.75 - 10 mm <sup>2</sup> (rigid and flexible)
Rated current	32 A (4 mm <sup>2</sup> )	95 A (25 mm <sup>2</sup> )
Maximum current	41 A (6 mm <sup>2</sup> )	110 A (35 mm <sup>2</sup> )
Temperature rise at rated current and rated cross section	25 K	40 K
Temperature rise at max. current and max. cross section	25 K	41 K
Contact resistance	0.08 mΩ	0.24 mΩ
Operating temperature range	-60 °C to +125 °C	-60 °C to +180 °C

This Annex is an integral part of the Certificate

ExVision Form 108  
Version 1.0 (2014-02)

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