



# 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 SEV 19.0061U**

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Certificate history:  
Issue 0 (2019-12-02)

Status: **Current**

Issue No: 1

Date of Issue: 2020-01-09

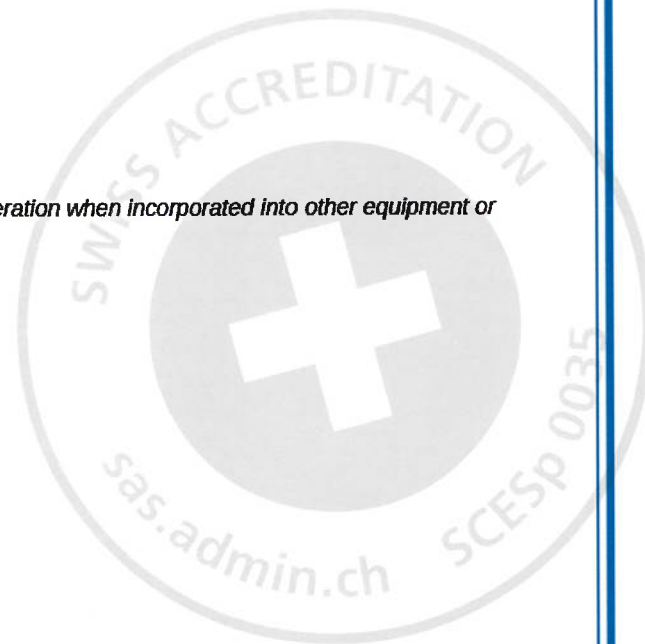
Applicant: **PHOENIX CONTACT GmbH & Co KG**  
Flachmarktstrasse 8  
32825 Blomberg  
Germany

Ex Component: **Terminal strips Type MTKD**

*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: **eb**

Marking: **Ex eb IIC Gb**



Approved for issue on behalf of the IECEx  
Certification Body:

**Martin Plüss**

Position:

**Manager Product Certification**

Signature:  
(for printed version)

Date:

2020-01-09

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:

**Eurofins Electric & Electronic Product Testing AG**  
Luppenstrasse 3  
CH-8320 FEHRALTORF  
Switzerland



E&E



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Manufacturer: **PHOENIX CONTACT GmbH & Co KG**  
Flachmarktstrasse 8  
32825 Blomberg  
Germany

Additional  
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 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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:

[CH/SEV/EXTR19.0060/00](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/06](#)



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

Thermoelectric voltage terminal pair with screw connection for use in potentially explosive areas. The terminal is designed for connecting and linking copper wires in wiring spaces with "eb", "ec" or "nA" types of protection.

Types: MTKD-CU/CUNI EX  
MTKD-FE/CUNI EX  
MTKD-NICR/CUNI EX  
MTKD-NICRSI/NISI EX  
MTKD-NICR/NI EX  
MTKD-E-CU/A-CU EX  
MTKD-S-CU/E-CU EX

Ratings: I max = 1 A  
U rated = 275 V

Classification of installation and use: stationary

Ingress protection: ---

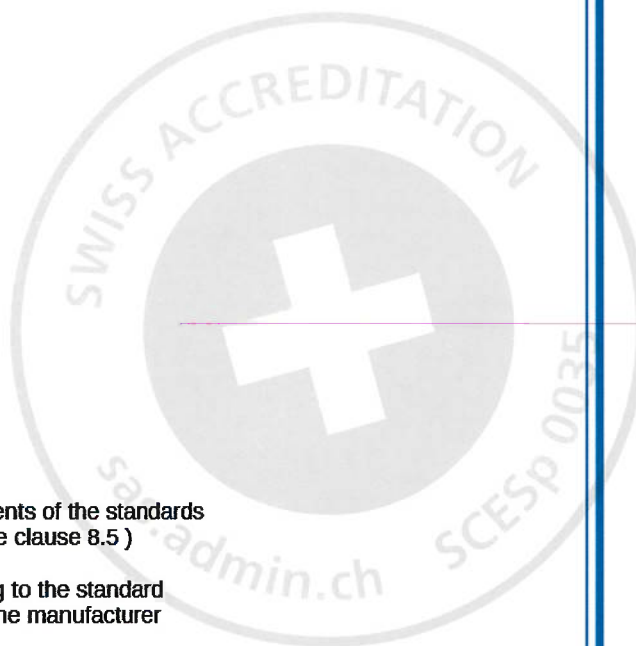
Rated ambient temperature range (°C): -50 °C to +110 °C

Rated ambient temperature range (°C)  
for Ex Components -50 °C to +110 °C

## SCHEDULE OF LIMITATIONS:

The terminal block marking is denoted by "U" to specified that:

- The terminal block shall be mounted into an Ex enclosure that meet the requirements of the standards IEC/EN 60079-0 ( including the requirements on enclosure containing copper, see clause 8.5 ) and IEC/EN 60079-7.
- When installing the terminal blocks, clearances and creepage distances according to the standard IEC 60079-7 must be observed, as well as conductor cross-sections must meet the manufacturer documentation in particular when using qualified terminal accessories.
- When installing the terminal blocks, the data included in the manufacturer's installation instructions, in particular the temperature rise (when carrying rated current with specified conductor size) and the resistance across the terminal (with rated conductor cross-section) are to be considered. Reduced current ratings must be observed.
- The service temperature is: - 50 °C ... 120 °C
- The chosen temperature class, T4...T1, must be higher than the service temperature and, than the maximal ambient temperature, added to +10 K rise due to the supply, and added to:
  - + 5 K margin for the temperature class T4...T3
  - + 10 K margin for the temperature class T2...T1





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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
Correction of Ex Marking

