



(1) **EU-Type Examination Certificate**

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Certificate number: **SEV 19 ATEX 0335 U**

(4) Product: Terminal strips
Type MTKD

(5) Manufacturer: Phoenix Contact GmbH & Co.KG

(6) Address: Flachsmarktstrasse 8, 32825 Blomberg, Germany

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 18-EX-0266.X01

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-7:2015
EN IEC 60079-0:2018

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2 G Ex eb IIC Gb**

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 19 ATEX 0335 U

(15) **Description of product**

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

(16) **Report number** 18-Ex-0266.X01

(17) **Specific conditions of use**

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

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"