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UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

- 2 Component Intended for use on/in an Product or Protective System Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

- 3 Type Examination Certificate No.: **TÜV 21 UKEX 7051 U** Issue: 00
- 4 Product: **Terminals SAK Series**
- 5 Manufacturer: **Weidmüller Interface GmbH & Co. KG**
- 6 Address: **Klingenbergsstr. 26
32758 Detmold; Germany**
- 7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 TUV Rheinland UK Ltd, Approved Body number 2571, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.
- The examination and test results are recorded in the confidential report 557 / UKEx 7051.00 / 21.
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018** **EN IEC 60079-7: 2015 / A1:2018**

Except in respect of those requirements listed at section 18 of the schedule to this certificate.

- 10 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 the basis for certification of an equipment or protective system.
- 11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of this product shall include the following:



II 2 GD Ex eb IIC Gb

This certificate and its schedules may only be reproduced in its entirety and without change.

TUV Rheinland UK Ltd

Solihull, 2022-03-08

Dipl.-Ing. Klaus Peter Graffi

This Type Examination Certificate without signature shall not be valid. Alterations are subject to approval by
TUV Rheinland UK Ltd, 1011 Stratford Road, Shirley, Solihull, B90 4BN, Tel. +44 (0) 121 7969400
A UKAS accredited certification body, No. 8400

15 Description of Product

The terminals of the SAK-series are suitable for use in enclosures in atmospheres with flammable gases or combustible dust.

The assessment covers the following types:

EK 10, EK 2.5N, EK 35, SAK 10*, SAK 10/35 PA*, SAK 16*, SAK 16/35 PA*, SAK 2.5*, SAK 2.5/35*, SAK 35*, SAK 35/35*, SAK 35/35/IK*, SAK 4*, SAK 4/35*, SAK 6/35 PA*, SAK 6N*

Optional accessories:

End plate:	AP SAK 2.5*, AP SAK4-10*, AP SAK16*, AP SAK35/TW SAK16*
Partition plate:	TW SAK 2.5*, TW 4 SAK4-10*
End bracket:	EW 35*, EWK 1*, WEW 32/1*, WEW 35/1*
Terminal rail:	TS 35/... acc.to IEC 60715
Cross-connection:	Q 2 SAK ⁺ (N) Q 3 SAK ⁺ (N) Q 4 SAK ⁺ (N) Q 10 SAK ⁺ (N) VH 17/8/5 SAK35 BFSC M4X30

*: different colours

⁺: different sizes

Technical data

Operating temperature ranges:

	-50°C up to +85 °C
T6	-50°C up to +40 °C
T5	-50°C up to +45 °C
T4	-50°C up to +45 °C

See manufacturer's installation instructions of each single terminal type for details.

16 Test report No. (associated with this certificate issue): 557 / UKEx 7051.00 / 21

17 Schedule of Limitations

1. The SAK-series products are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to EN 60079-0 and EN 60079-7. For combustible dust the enclosure must satisfy the requirements according to EN 60079-0 and EN 60079-31.
2. The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks. The terminal blocks shall be placed inside a suitable certified IP54 enclosure in type of protection "e" for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable certified enclosure (EN 60079-31) in type of protection "t".
3. Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current. Due to the above mentioned, the terminal blocks may be used in apparatus of temperature classes T6...T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 85°C under any condition.

- T6 (- 50°C ... +40 °C)
T5 (- 50°C ... +45 °C)
T4 (- 50°C ... +45 °C)
4. When using the SAK products especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to table 1 of EN 60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.
 5. For cross connection accessories, current rating, resistance across the terminal please refer to the table under "Technical data" of the "Notice to Installers".
 6. No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.
 7. If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.
 8. Unused terminals shall be tightened.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.