

## (1) EC-TYPE EXAMINATION CERTIFICATE

- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 05ATEX2061 U**
- (4) Components: **Feedthrough Terminal Blocks Type SAK 4, SAKH 6, SAKH 10 and SAKH 35**
- (5) Manufacturer: **Weidmüller Interface GmbH & Co. KG**
- (6) Address: **Klingenbergstraße 16, D-32758 Detmold, Germany**
- (7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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. 2082529.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0 : 2004      EN 60079-7 : 2003      EN 50281-1-1 : 1998 + A1**
- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified components according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of these components. These are not covered by this certificate.
- (12) The marking of the components shall include the following:



**II 2 G D Ex e II**

Arnhem, 23 February 2006  
KEMA Quality B.V.



T. Pijpker  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change

## SCHEDULE

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to EC-Type Examination Certificate KEMA 05ATEX2061 U

(15) **Description**

The Feedthrough Terminal Blocks Types SAK 4, SAKH 6, SAKH 10 and SAKH 35 with accessories, are intended for the connection of copper conductors in enclosures in type of protection increased safety "e". Fixing is made on mounting rails type TS 32.

Operating temperature range: -50 °C ... +140 °C.

**Electrical data**

Type:	SAK 4	SAKH 6
Rated voltage [V] .....	500	1000
Max. working voltage [V] .....	550	1100
- during jumping over cross connection [V] .	175	175
Rated current [A] .....	32	57
Max. load current [A] .....	36	72
- with cross connections [A] .....	36	72
Rated cross-section mm <sup>2</sup> (AWG) .....	4 (12)	10 (8)
Max. cross-section (single wire) mm <sup>2</sup> (AWG) .....	6 (10)	16 (6)
Min. cross-section (single/multi-wire) mm <sup>2</sup> (AWG) .....	0,5 (20)	0,5 (20)

Type:	SAKH 10	SAKH 35
Rated voltage [V] .....	1000	1000
Max. working voltage [V] .....	1100	1100
- during jumping over cross connection [V] .	175	440
Rated current [A] .....	57	125
Max. load current [A] .....	73	150
Rated cross-section mm <sup>2</sup> (AWG) .....	10 (8)	35 (0)
Max. cross-section (single wire) mm <sup>2</sup> (AWG) .....	16 (6)	16 (6)
(multi-wire) mm <sup>2</sup> (AWG) .....		50 (0)
Min. cross-section (single/multi-wire) mm <sup>2</sup> (AWG) .....	1,5 (16)	4 (12)

**Installation instructions**

The Feedthrough Terminal Blocks 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 50014 / EN 60079-0 and EN 50019 / EN 60079-7. For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1 / EN 61241-0 and EN 61241-1.

In combination with other terminal block series and sizes and if other accessories are used the applicable creepage distances and clearances shall be met.

Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

If smaller cross sections than the rated cross section are used, the associated lower current has to be laid down in the EC-Type Examination Certificate of the complete apparatus.

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The Feedthrough Terminal Blocks may be used, based on the self-heating when used at the above mentioned rated current and at ambient temperatures of  $-50^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$  at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature class T6 and T5. When the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T4, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

### Routine tests

A routine dielectric strength test according to EN 60079-7, clause 7.2 in combination with clause 6.1 or according to the method as laid down in document no. A\_10\_07 has to be carried out.

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### Report

KEMA No. 2082529.

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### Special conditions for safe use

None.

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### Essential Health and Safety Requirements

Covered by the standards listed at (9).

(19)

### Test documentation

As listed in Test Report No. 2082529.