

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Product image**







To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

Version	SAK Series, Feed-through terminal, Rated cross- section: 2.5 mm², Screw connection, blue
Order No.	<u>0380480000</u>
Туре	SAK 2.5/35 BL
GTIN (EAN)	4008190131869
Qty.	100 pc(s).



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# **Technical data**

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Depth	40 mm	Depth (inches)	1.575 inch
Height	44.5 mm	Height (inches)	1.752 inch
Width	6.1 mm	Width (inches)	0.24 inch
Net weight	6.8 g		

### **Temperatures**

Storage temperature	-25 °C55 °C	Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex- Certificate of Conformity
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C

#### **Material data**

Material	PA 66	Colour	blue	
UL 94 flammability rating	V-2			

### Rating data IECEx/ATEX

Certificate No. (ATEX)	TUEV18ATEX8207U	Certificate No. (IECEX)	IECEXTUR18.0017U
Max. voltage (ATEX)	690 V	Current (ATEX)	24 A
Wire cross section max. (ATEX)	6 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	24 A	Wire cross section max. (IECEX)	6 mm²
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex- Certificate of Conformity	Marking EN 60079-7	Ex eb II C Gb
Ex 2014/34/EU label	II 2 G D		EX 60 II C GD

### **System specifications**

Version	Screw connection, for screwable cross- connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Rail	TS 35	N-function	Yes
PE function	No	PEN function	No

## **Additional technical data**

Explosion-tested version	Yes	Number of similar terminals	1	
Open sides	right	Type of mounting	Snap-on	

## **CSA** rating data

Certificate No. (CSA)	12400-129	Current size C (CSA)	25 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	10 AWG
Wire cross section min. (CSA)	26 AWG		



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# **Technical data**

## **Conductors for clamping (additional connection)**

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.

 $4 \text{ mm}^2$ 

## **Conductors for clamping (rated connection)**

Blade size	0.6 x 3.5 mm	Clamping range, max.	6 mm <sup>2</sup>
Clamping range, min.	0.13 mm <sup>2</sup>	Clamping screw	M 2.5
Connection cross-section, stranded,		Connection cross-section, stranded, m	in.
max.	4 mm <sup>2</sup>		0.5 mm <sup>2</sup>
Connection direction	on side	Gauge to IEC 60947-1	A3
Number of connections	2	Stripping length	10 mm
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.4 Nm
Torque level with DMS electric		Twin wire-end ferrules, max.	
screwdriver	1		1.5 mm <sup>2</sup>
Twin wire-end ferrules, min.	0.5 mm <sup>2</sup>	Type of connection	Screw connection
Wire connection cross section AWG,		Wire connection cross section, finely	
min.	AWG 26	stranded, max.	4 mm <sup>2</sup>
Wire connection cross section, finely		Wire connection cross-section, finely	
stranded, min.	0.5	stranded with wire-end ferrules DIN	4 0
	0.5 mm <sup>2</sup>	46228/1, max.	4 mm <sup>2</sup>
Wire connection cross-section, finely		Wire connection cross-section, finely	
stranded with wire-end ferrules DIN	0.5	stranded with wire-end ferrules DIN	4 0
46228/1, min.	0.5 mm <sup>2</sup>	46228/4, max.	4 mm <sup>2</sup>
Wire connection cross-section, finely		Wire connection cross-section, solid	
stranded with wire-end ferrules DIN		core, max.	
46228/4, min.	0.5 mm <sup>2</sup>		6 mm <sup>2</sup>
Wire connection cross-section, solid		·	
core, min.	0.5 mm <sup>2</sup>		

### General

Rail	TS 35	Standards	IEC 60947-7-1
Wire connection cross	section AWG,		
min	AWG 26		

#### **Rating data**

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	24 A
Current at maximum wires	41 A	Standards	IEC 60947-7-1
Volume resistance according to IEC		Rated impulse withstand vo	Itage
60947-7-x	1.33 mΩ		8 kV
Power loss in accordance with IEC	;	Pollution severity	
60947-7-x	0.77 W		3

## **UL** rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	12 AWG
Conductor size Factory wiring min. (UR)	22 AWG	Conductor size Field wiring max. (UR)	12 AWG
Conductor size Field wiring min. (UR)	22 AWG	Current size C (UR)	20 A
Voltage size C (UR)	600 V		



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# **Technical data**

#### **Classifications**

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ECLASS 9.0	27-14-11-20	ECLASS 9.1	27-14-11-20
ECLASS 10.0	27-14-11-20	ECLASS 11.0	27-14-11-20
ECLASS 12.0	27-14-11-20	ECLASS 13.0	27250101

### **Approvals**

Approvals





ROHS	Conform	
UL File Number Search	UL Website	
Certificate No. (UR)	E60693	

### **Downloads**

Approval/Certificate/Document of	Attestation of Conformity
Conformity	<u>CFAT SAK 2.5/35</u>
	CB Certificate
	CB Test Certificate
	DNVGL certificate
	Lloyds Register Certificate
	IECEx Certificate
	ATEX Certificate
	Declaration of Conformity
	UKCA declaration of conformity
Engineering Data	CAD data – STEP
Product Change Notification	20210308 Technical Change SAK PA 35
User Documentation	Usage of terminals in EXi atmospheres
	StorageConditionsTerminalBlocks
	NTI SAK 2.5/35
Catalogues	Catalogues in PDF-format



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## Accessories

#### **SAK-Series**



Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

#### **General ordering data**

50 pc(s).

Туре AD 3 SAK2.5 Order No. 0297900000 GTIN (EAN) 4008190038229

SAK Series, cover plate, yellow, 18 mm

#### Plus

Qty.



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- · Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

#### **General ordering data**

Туре DEK 5/6 PLUS MC NE WS

Version Order No. 1011320000

Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00

GTIN (EAN) 4032248717644 1,000 pc(s). Qty.

Weidmueller, white



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## **Accessories**

#### **Screws**



Depending on the terminal block or also accessories, we offer different types of screws as additional items or also spare parts.

#### **General ordering data**

Type BFSC M3X22 PA/RT
Order No. 0128900000
GTIN (EAN) 4008190084158

100 pc(s).

5151011

Accessories, Mounting screw, for cross-connection link

#### **DEK 5/6**

Qty.



#### WS/ DEK

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

#### Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- · High flexibility thanks to manufacturer independence

#### **General ordering data**

 Type
 DEK 5/6 MM WS
 Version

 Order No.
 2007120000
 Dekafix, Terminal marker, 5 x 6 mm, Weidmueller, white

 GTIN (EAN)
 4050118392104

 Qty.
 600 pc(s).



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## **Accessories**

#### **Test plugs**



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

#### **General ordering data**

Type PS 2.3 RT

Order No. 0180400000

GTIN (EAN) 4008190060121

Oty. 20 pc(s).

version

Accessories, Test plug

#### Marker holder



The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snaped together and could be mounted in all standard marking channels of the Klippon<sup>®</sup> Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

#### **General ordering data**

Туре BZT 1 WS 10/5 Version Order No. 1805490000 Accessories, Marker holder GTIN (EAN) 4032248270231 Qty. 100 pc(s). Type BZT 1 ZA WS 10/5 Version Order No. 1805520000 Accessories, Marker holder GTIN (EAN) 4032248270248 Qty. 100 pc(s).



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## **Accessories**

#### **SAK-Series**



End plates are fitted to the open side of the last modular terminal before the end bracket. The use of an end plate ensures the function of the modular terminal and the specified rated voltage. It guarantees protection against contact with live parts and makes the final terminal finger-proof.

#### **General ordering data**

Туре	AP SAK2.5+AST3+4/35	Version
Order No.	0460560000	SAK Series, End plate, 1.5 mm, beige, Direct mounting
GTIN (EAN)	4008190048334	
Qty.	20 pc(s).	
Туре	AP SAK2.5+AST3+4/35 BL	Version
	· ·	
Order No.	0460580000	SAK Series, End plate, 1.5 mm, blue, Direct mounting
Order No. GTIN (EAN)	0460580000 4008190081164	

### **SAK-Series**



A partition plate is used for the optical separation of circuits or used for electrical isolation from neighbouring cross-connectors. In contrast to the end plate, the contour can be larger than the adjacent terminal blocks. However, it should not be smaller, as otherwise the required clearance and creepage distances within the application can no longer be maintained.

Туре	TW SAK2.5	Version
Order No.	0302860000	SAK Series, Partition plate, 1.5 mm, beige, Direct mounting
GTIN (EAN)	4008190032968	
Qty.	20 pc(s).	
Туре	TW SAK2.5 BL	Version
Order No.	0302880000	SAK Series, Partition plate, 1.5 mm, blue, Direct mounting
GTIN (EAN)	4008190047948	
Qty.	20 pc(s).	
Туре	TSCH 1	Version
Order No.	0319160000	SAK Series, Small partition, beige, 2 mm
GTIN (EAN)	4008190097219	
Qty.	100 pc(s).	



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## Accessories

### **Custom printing**



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- · Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### **General ordering data**

Туре	DEK 5/6 MC SDR	Version
Order No.	1609830000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4008190456603	Weidmueller, To customer specification
Qty.	200 pc(s).	
Туре	DEK 5/6 PLUS MC SDR	Version
Type Order No.	DEK 5/6 PLUS MC SDR 1038650000	Version  Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
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### **Testsockets**



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

### **General ordering data**

 Type
 STB 8.5/5/2.3/M3 SAK2.5
 Version

 Order No.
 0280600000
 Accessories, Socket

 GTIN (EAN)
 4008190023188

 Oty.
 50 pc(s).



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## **Accessories**

#### **Blank**



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- Terminal markers, suitable for all Weidmüller cable connectors
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Туре	DEK 5/6 MC NE GE	Version
Order No.	1238280000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4050118038750	Weidmueller, yellow
Qty.	1,000 pc(s).	
Туре	DEK 5/6 MC NE GN	Version
Order No.	<u>1238310000</u>	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4050118271812	Weidmueller, green
Qty.	1,000 pc(s).	
Туре	DEK 5/6 MC NE BL	Version
Order No.	<u>1238290000</u>	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4050118267327	Weidmueller, blue
Qty.	1,000 pc(s).	
Туре	DEK 5/6 MC NE BR	Version
Order No.	1454900000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4050118323313	Weidmueller, brown
Qty.	1,000 pc(s).	
Туре	DEK 5/6 MC NE GR	Version
Order No.	1238330000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4050118323306	Weidmueller, grey
Qty.	1,000 pc(s).	
Туре	DEK 5/6 MC NE WS	Version
Order No.	<u>1609820000</u>	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4008190203436	Weidmueller, white
Qty.	1,000 pc(s).	
Туре	DEK 5/6 MC NE OR	Version
Order No.	<u>1912090000</u>	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4032248540525	Weidmueller, orange
Qty.	1,000 pc(s).	



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# Accessories

### Q/SAK



Screwable cross-connections are easy to mount and de mount. Thanks to the big contact surface, even high currents can be transmitted with maximum contact reliability.

Туре	Q 4 SAK2.5	Version
Order No.	0337200000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190142902	poles: 4
Qty.	50 pc(s).	
Туре	Q 10 SAK2.5	Version
Order No.	0368700000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190107796	poles: 10
Qty.	20 pc(s).	
Туре	Q 2 SAK2.5	Version
Order No.	0337000000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190005801	poles: 2
Qty.	50 pc(s).	
Туре	Q 3 SAK2.5	Version
Order No.	0337100000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190015411	poles: 3
Qty.	50 pc(s).	