

**SAK Series**  
**SAK 10****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 1429-0

Fax: +49 5231 14292083

www.weidmueller.com

**Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

**General ordering data**

Type	SAK 10
Order No.	<a href="#">0110060000</a>
Version	SAK Series, Feed-through terminal, Rated cross-section: 10 mm², Screw connection, Beige
GTIN (EAN)	4008190027056
Qty.	100 pc(s).

## SAK Series

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## Technical data

### Dimensions and weights

Width	10 mm	Width (inches)	0.394 inch
Height	40 mm	Height (inches)	1.575 inch
Depth	49 mm	Depth (inches)	1.929 inch
Net weight	18.95 g		

### Temperatures

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C
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### Material data

Material	PA 66	Colour	beige / yellow
UL 94 flammability rating	V-2		

### Rating data IECEx/ATEX

Certificate No. (ATEX)	KEMA97ATEX1798U	Certificate No. (IECEX)	IECEXKEM06.0014U
Max. voltage (ATEX)	550 V	Current (ATEX)	50 A
Wire cross section max. (ATEX)	10 mm <sup>2</sup>	Max. voltage (IECEX)	550 V
Current (IECEX)	50 A	Wire cross section max. (IECEX)	10 mm <sup>2</sup>
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Ex 2014/34/EU label	II 2 G D		Ex e II

### System specifications

Version	Screw connection, for screwable cross-connection, One end without connector	Tightening torque (clamping screw for copper conductors)	2...2.4 Nm
End cover plate required	Yes	Number of potentials	1
Number of levels	1	No. of clamping points per level	2
Number of potentials per tier	1	Levels cross-connected internally	No
PE connection	No	Mounting rail	TS 32
N-function	No	PE function	No
PEN function	No		

### Additional technical data

Explosion-tested version	No	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on

### CSA rating data

Certificate No. (CSA)	154685-1501714	Current size C (CSA)	65 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	6 AWG
Wire cross section min. (CSA)	14 AWG		

### Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	10 mm <sup>2</sup>
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## Technical data

### Conductors for clamping (rated connection)

Blade size	1.0 x 5.5 mm	Clamping range, rated connection, max.	16 mm <sup>2</sup>
Clamping range, rated connection, min.	1.5 mm <sup>2</sup>	Clamping screw	M 4
Connection direction		Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	1.5 mm <sup>2</sup>
	on side	Number of connections	2
Gauge to IEC 60947-1	B6	Tightening torque, max.	2.4 Nm
Stripping length	12 mm	Twin wire-end ferrules, max.	6 mm <sup>2</sup>
Tightening torque, min.	2 Nm	Type of connection	Screw connection
Twin wire-end ferrules, min.	0.75 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 14
Wire connection cross section AWG, max.	AWG 6	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	1.5 mm <sup>2</sup>
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	10 mm <sup>2</sup>	Wire connection cross section, solid core max. rated connection	10 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	16 mm <sup>2</sup>	Wire connection cross section, stranded, rated connection, max.	16 mm <sup>2</sup>
Wire connection cross section, solid core, min. rated connection	1.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	10 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, min.	1.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded, min.	1.5 mm <sup>2</sup>		

### Rating data

Rated cross-section	10 mm <sup>2</sup>	Rated voltage	800 V
Rated current	57 A	Current at maximum wires	76 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	0.56 mΩ
Rated impulse withstand voltage	8 kV	Pollution severity	3

### UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	6 AWG
Conductor size Factory wiring min. (UR)	14 AWG	Conductor size Field wiring max. (UR)	6 AWG
Conductor size Field wiring min. (UR)	14 AWG	Current size C (UR)	60 A
Voltage size C (UR)	600 V		

### Classifications

ETIM 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	EC000897
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-20
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20
eClass 8.1	27-14-11-20	eClass 9.0	27-14-11-20
eClass 9.1	27-14-11-20		

### Product information

Descriptive text ordering data	With AWG 6 and H07V-R16 conductors, an increased MD torque of 2 to 2.4 Nm must be applied.
Descriptive text technical data	When used with twin wire-end ferrules ZH 0.5 - ZH 4, the rated voltage is 690 V.

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## Technical data

### Approvals

Approvals



ROHS

Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">CFAT_SAK 10.pdf</a> <a href="#">DE_PT1331_20160414_011_ISSUE01.pdf</a>
Engineering Data	<a href="#">EPLAN_WSCAD</a>

### Safety note

Safety notice	<a href="#">Safety Information</a>
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## Accessories

### End plates



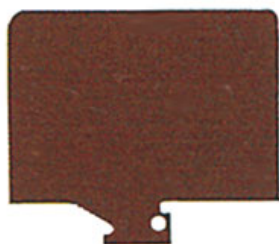
#### Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
AP SAK4-10 DB	<a href="#">0105100000</a>	SAK Series, End plate, 1.5 mm, Dark Beige, Direct mounting	4008190394875	20 pc(s).
AP SAK4-10 I	<a href="#">0117910000</a>	SAK Series, End plate, 1.5 mm, Light Grey, Direct mounting	4008190183707	20 pc(s).
AP SAK4-10	<a href="#">0117960000</a>	SAK Series, End plate, 1.5 mm, Beige, Direct mounting	4008190081485	20 pc(s).
AP SAK4-10 RT	<a href="#">0117900000</a>	SAK Series, End plate, 1.5 mm, Red, Direct mounting	4008190125059	20 pc(s).
AP SAK4-10 BL	<a href="#">0117980000</a>	SAK Series, End plate, 1.5 mm, Blue, Direct mounting	4008190171087	20 pc(s).

### Partition plates



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#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
TW SAK4-10 HP/DBR/0.5	<a href="#">0197100000</a>	SAK Series, Separation plate, 0.5 mm, Brown, Dark Beige, Direct mounting	4008190146627	20 pc(s).
TW 4 SAK4-10 BL	<a href="#">0130180000</a>	SAK Series, Separation plate, 1.5 mm, Blue	4008190114138	20 pc(s).
TW 4 SAK4-10	<a href="#">0130160000</a>	SAK Series, Separation plate, 1.5 mm, Beige	4008190096335	20 pc(s).

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## Accessories

### Covers



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#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
AD 4 SAK 10	<a href="#">0178600000</a>	SAK Series, cover plate, Yellow, 25 mm	4008190068288	50 pc(s).

### Blank



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

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MC NE WS	<a href="#">1856740000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White	4032248400850	800 pc(s).

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## Accessories

### Custom printing



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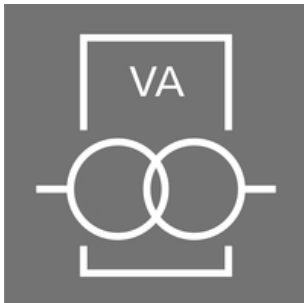
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### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC SDR	<a href="#">1609810000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, To customer specification	4008190456597	200 pc(s).

### Test plug



### Current and voltage transformer wiring

Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
PS 4 F.STB 4	<a href="#">0299600000</a>	Accessories, Test plug	4008190074043	20 pc(s).

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## Accessories

### Connection sleeves



VH 12/4.9/3.3 024900

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#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VH 19/5/3.5 SAK4-16	<a href="#">0285100000</a>	SAK Series, Connecting sleeve, for cross-connection link, No. of poles: 1	4008190189297	50 pc(s).

### Custom printing



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- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MC SDR	<a href="#">1856750000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification	4032248400867	160 pc(s).
DEK 5/8 PLUS MC SDR	<a href="#">1046370000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification	4032248782079	160 pc(s).



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## Accessories

### Q / SAK



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#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
Q 2 SAK10	<a href="#">0457100000</a>	SAK Series, Cross-connector, for cross-connection link, No. of poles: 2	4008190103545	50 pc(s).
Q 3 SAK10	<a href="#">0457200000</a>	SAK Series, Cross-connector, for cross-connection link, No. of poles: 3	4008190135379	50 pc(s).
Q 4 SAK10	<a href="#">0457300000</a>	SAK Series, Cross-connector, for cross-connection link, No. of poles: 4	4008190129750	50 pc(s).
Q 10 SAK10	<a href="#">0457400000</a>	SAK Series, Cross-connector, for cross-connection link, No. of poles: 10	4008190016166	20 pc(s).

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**Accessories**
**DEK 5/8**

**WS/ DEK**

MultiMark DEK/WS connector 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**

- Compatible with W, Z, P and SAK series terminal blocks
- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Space for multi-line printing

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MM	<a href="#">2007130000</a>	Dekafix, Terminal marker,	4050118392012	500 pc(s).
WS		5 x 8 mm, Weidmueller, White		

**Small partition**

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**General ordering data**

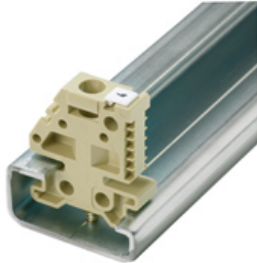
Type	Order No.	Version	GTIN (EAN)	Qty.
TSCH 1	<a href="#">0319160000</a>	SAK Series, Small partition,	4008190097219	100 pc(s).
		Beige, 2 mm		

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## Accessories

### End bracket



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#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
EWK 1	<a href="#">0206160000</a>	Accessories, End bracket	4008190080020	50 pc(s).
EWK 2	<a href="#">0199360000</a>	Accessories, End bracket	4008190023546	50 pc(s).
WEW 32/1	<a href="#">1067600000</a>	W-Series, End bracket	4008190099657	50 pc(s).
EW 35	<a href="#">0383560000</a>	Accessories, End bracket	4008190181314	50 pc(s).

### Locking tabs



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#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VL 2	<a href="#">0135900000</a>	SAK Series, Cross-	4008190036409	50 pc(s).
SAK6/10/ SAKB		connection lug, for cross- connection link, No. of poles: 2		

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**Accessories**
**Blank**


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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

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC NE WS	<a href="#">1609801044</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, White	4008190397111	1,000 pc(s).

**Plus**


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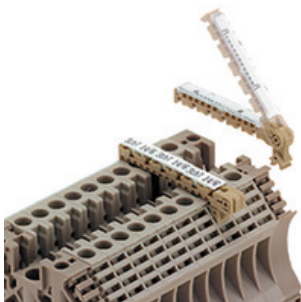
Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 PLUS MC NE WS	<a href="#">1046350000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White	4032248782055	800 pc(s).

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## Accessories

### SchT group marker carrier



The SchT 5 S group tag carriers are clipped directly onto the TS 32 mounting rail (G-rail) or the TS 35 mounting rail (top-hat rail). It is therefore possible to label the terminal strip irrespective of the terminal and the type of terminal. SchT 5 and SchT 5 S are fitted with ESO 5, STR 5 protective strips.

The SchT 7 is a hinged group tag carrier for inlay tags which enables easy access to the clamping screw. The SchT 7 is fitted with ESO 7, STR 7 protective strips or DEK 5.

SchT 9/4 and SchT 14/6 are hinged group tag carriers for single dekafix and WS tags that enable easy access to the clamping screw.

SchT 9/4 and SchT 14/6 are fitted with WS or DEK. Inlay tags and protective strips can be found under "Accessories".

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SCHT 7	<a href="#">0517960000</a>	SCHT, Terminal marker, 39.3 x 8 mm, Pitch in mm (P): 7.00 White	4008190001742 20 pc(s).	

### Blank



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Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/6.5 MC	<a href="#">1609840000</a>	Dekafix, Terminal marker, 5 x 6.5 mm, Pitch in mm (P): 6.50 Weidmueller, White	4008190203429 900 pc(s).	
NE WS				

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**Accessories****Custom printing**

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DEK 5/6.5 MC SDR	<a href="#">1609850000</a>	Dekafix, Terminal marker, 5 x 6.5 mm, Pitch in mm (P): 6.50 Weidmueller, To customer specification	4008190456610	180 pc(s).