Weidmüller ⧓

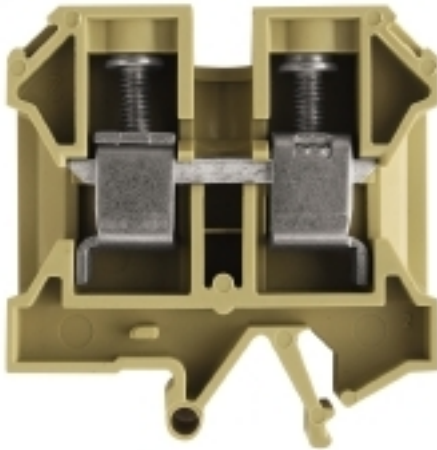# SAK 16

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Klippon® Connect with clamping yoke Technology

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

General ordering data

Version	SAK Series, Feed-through terminal, Rated cross-section: 16 mm², Screw connection, beige
Order No.	0271060000
Type	SAK 16
GTIN (EAN)	4008190078324
Qty.	50 pc(s).

Creation date January 14, 2022 2:52:57 AM CET

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SAK 16

Weidmüller Interface GmbH & Co. KG
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Technical data

Dimensions and weights

Depth	57.5 mm	Depth (inches)	2.264 inch
Height	50 mm	Height (inches)	1.969 inch
Width	12 mm	Width (inches)	0.472 inch
Net weight	25.64 g		

Temperatures

Storage temperature		Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
	-25 °C...55 °C		
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C

Material data

Material	PA 66	Colour	beige / yellow
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)	74.5 A
Wire cross section max. (ATEX)	16 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	74.5 A	Wire cross section max. (IECEX)	16 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		

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 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)	87 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	4 AWG
Wire cross section min. (CSA)	14 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.	16 mm²

Conductors for clamping (rated connection)

Blade size	1.0 x 5.5 mm	Clamping range, max.	16 mm²
Clamping range, min.	2.5 mm²	Clamping screw	M 4
Connection cross-section, stranded, max.	16 mm²	Connection cross-section, stranded, min.	4 mm²
Connection direction	on side	Gauge to IEC 60947-1	B6
Number of connections	2	Stripping length	15 mm
Tightening torque, max.	2.64 Nm	Tightening torque, min.	2 Nm
Twin wire-end ferrules, max.	10 mm²	Twin wire-end ferrules, min.	1.5 mm²
Type of connection	Screw connection	Wire connection cross section AWG, max.	AWG 6
Wire connection cross section AWG, min.	AWG 12	Wire connection cross section, finely stranded, max.	16 mm²
Wire connection cross section, finely stranded, min.	4 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	16 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	4 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	16 mm²	Wire connection cross-section, solid core, max.	10 mm²
Wire connection cross-section, solid core, min.	2.5 mm²		

General

Rail	TS 32	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 6	Wire connection cross section AWG, min.	AWG 12

Rating data

Rated cross-section	16 mm²	Rated voltage	1,000 V
Rated current	76 A	Current at maximum wires	76 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	0.42 mΩ
Rated impulse withstand voltage	8 kV	Power loss in accordance with IEC 60947-7-x	2.43 W
Pollution severity	3		

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	4 AWG
Conductor size Factory wiring min. (UR)	12 AWG	Conductor size Field wiring max. (UR)	4 AWG
Conductor size Field wiring min. (UR)	12 AWG	Current size C (UR)	80 A
Voltage size C (UR)	600 V		

SAK 16

Technical data

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	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		

Approvals

Approvals

ROHS	Conform
UL File Number Search	E60693

Downloads

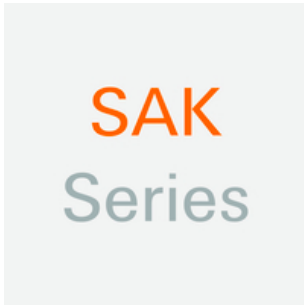|	
Approval/Certificate/Document of Conformity	Attestation Of Conformity
	CFAT SAK 16
	CB Certificate
	CB Test Certificate
	EAC certificate
	DNVGL certificate
	Lloyds Register Certificate
	MARITREG Certificate
	EAC EX Certificate
	IECEx Certificate
	ATEX Certificate
	Declaration of Conformity
	CE Declaration of Conformity all terminals
Engineering Data	CAD data – 04038_SAK_16_DXF.dxf
	CAD data – STEP
Engineering Data	EPLAN, WSCAD
Product Change Notification	20210308 Technical Change SAK PA 32
User Documentation	StorageConditionsTerminalBlocks
	NTI SAK 16/32
Catalogues	Catalogues in PDF-format

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SAK 16

Accessories

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.

General ordering data

Type	TSCH 1	Version
Order No.	0319160000	SAK Series, Small partition, beige, 2 mm
GTIN (EAN)	4008190097219	
Qty.	100 pc(s).	

Connection sleeves

General ordering data

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

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Accessories

DEK 5/8

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 5/8 MM WS	Version	
Order No.	2007130000	Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, white	
GTIN (EAN)	4050118392012		
Qty.	500 pc(s).		

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Accessories

DEK 5/6

WS/ DEK

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• Easy mounting thanks to an innovative composite material
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• 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).		

Creation date January 14, 2022 2:52:57 AM CET

SAK 16

Accessories

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

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

Type	DEK 5/5 MC NE WS	Version
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1,000 pc(s).	

QL / SAK 16

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.

General ordering data

Type	QL 10 SAK16	Version
Order No.	0471000000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190150761	poles: 10
Qty.	20 pc(s).	
Type	QL 3 SAK16	Version
Order No.	0470800000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190011574	poles: 3
Qty.	50 pc(s).	
Type	QL 2 SAK16	Version
Order No.	0470700000	SAK Series, Cross-connector, for cross-connection link, Number of
GTIN (EAN)	4008190182618	poles: 2
Qty.	50 pc(s).	

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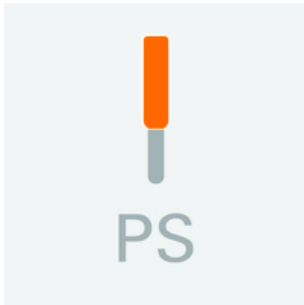# SAK 16

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Accessories

Type	QL 4 SAK16	Version	
Order No.	0470900000	SAK Series, Cross-connector, for cross-connection link, Number of	
GTIN (EAN)	4008190112257	poles: 4	
Qty.	50 pc(s).		

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.

General ordering data

Type	Q 10 SAK16	Version	
Order No.	0457800000	SAK Series, Cross-connector, for cross-connection link, Number of	
GTIN (EAN)	4008190082512	poles: 10	
Qty.	20 pc(s).		
Type	Q 2 SAK16	Version	
Order No.	0457500000	SAK Series, Cross-connector, for cross-connection link, Number of	
GTIN (EAN)	4008190055349	poles: 2	
Qty.	50 pc(s).		
Type	Q 4 SAK16	Version	
Order No.	0457700000	SAK Series, Cross-connector, for cross-connection link, Number of	
GTIN (EAN)	4008190070823	poles: 4	
Qty.	50 pc(s).		
Type	Q 3 SAK16	Version	
Order No.	0457600000	SAK Series, Cross-connector, for cross-connection link, Number of	
GTIN (EAN)	4008190022280	poles: 3	
Qty.	50 pc(s).		

Creation date January 14, 2022 2:52:57 AM CET

Catalogue status 17.12.2021 / We reserve the right to make technical changes.

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SAK 16

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 4 F.STB 4	Version	
Order No.	0299600000		Accessories, Test plug
GTIN (EAN)	4008190074043		
Qty.	20 pc(s).		

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

Type	AD 3 SAK16	Version	
Order No.	0297800000		SAK Series, cover plate, yellow, 36 mm
GTIN (EAN)	4008190080884		
Qty.	50 pc(s).		

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SAK 16

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

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

Type	DEK 5/6 MC NE WS	Version	
Order No.	1609820000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00	
GTIN (EAN)	4008190203436	Weidmueller, white	
Qty.	1,000 pc(s).		

Blank

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General ordering data

Type	DEK 5/8 MC NE WS	Version	
Order No.	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00	
GTIN (EAN)	4032248400850	Weidmueller, white	
Qty.	800 pc(s).		

Creation date January 14, 2022 2:52:57 AM CET

SAK 16

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

Type	AP SAK35/TW SAK16	Version	
Order No.	0303660000	SAK Series, End plate, 1.5 mm, beige	
GTIN (EAN)	4008190110765		
Qty.	10 pc(s).		
Type	AP SAK35/TW SAK16 BL	Version	
Order No.	0303680000	SAK Series, End plate, 1.5 mm, blue	
GTIN (EAN)	4008190025199		
Qty.	10 pc(s).		
Type	AP SAK16 BL	Version	
Order No.	0271180000	SAK Series, End plate, 1.5 mm, blue, Direct mounting	
GTIN (EAN)	4008190169800		
Qty.	20 pc(s).		
Type	AP SAK16	Version	
Order No.	0271160000	SAK Series, End plate, 1.5 mm, beige, Direct mounting	
GTIN (EAN)	4008190120429		
Qty.	20 pc(s).		

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SAK 16

Accessories

Custom printing

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General ordering data

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

Plus

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General ordering data

Type	DEK 5/8 PLUS MC NE WS	Version	
Order No.	1046350000		Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248782055		Weidmueller, white
Qty.	800 pc(s).		

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SAK 16

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General ordering data

Type	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).		

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 M3X25	Version	
Order No.	0292500000	Accessories, Mounting screw, for cross-connection link	
GTIN (EAN)	4008190177027		
Qty.	100 pc(s).		

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SAK 16

Accessories

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General ordering data

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

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