SAK terminal with screw connection
SAK 4/35

Weidmüller Interface GmbH & Co. KG
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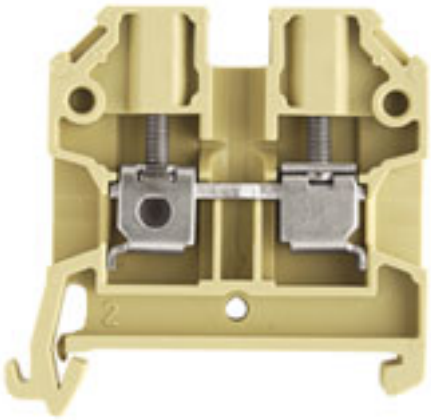

The Weidmüller SAK feed-through terminals satisfy the requirements of IEC 60947-1 and are available with rated cross-sections from 0.08 mm² to 240 mm².

General ordering data

Order No.	0443660000
Type	SAK 4/35
Version	SAK terminal with screw connection, Feed-through terminal, Rated cross-section: 4 mm², Screw connection, Direct mounting
GTIN (EAN)	4008190019990
Qty.	100 pc(s).

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Technical data

Dimensions

Length	45 mm	Width	6.5 mm
Height	44 mm	Height of lowest version	44 mm
Net weight	8.6 g		

Temperatures

Operating temperature		Storage temperature	
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C

Rated data IECEx/ATEX

Certificate No. (ATEX)	KEMA97ATEX1798U	ATEX certificate	IECEXKEM06.0014U
ATEX certificate	KEMA97ATEX1798U_e.pdf	Certificate No. (IECEX)	IECEXKEM06.0014U
IEC Ex certificate	IECEXKEM06.0014U_e.pdf	max. voltage	550 V
Current (ATEX)	28 A	Wire cross section max. (ATEX)	4 mm²
max. voltage	550 V	Current (IECEX)	28 A
Wire cross section max. (IECEX)	4 mm²	Voltage, cross-connection	CrossConnectionGuide.pdf
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	Ex e II
Marking ATEX Directive 94/9/EC	II 2 G D		

Additional technical data

Explosion-tested version	Yes	Installation advice	Direct mounting
Number of similar terminals	1	Open sides	right
Type of mounting	Snap-on	Version	Double terminal

CSA ratings data

Certificate No. (CSA)	12400-129	Voltage size C (CSA)	600 V
Current size C (CSA)	36 A	Wire cross section max. (CSA)	10 AWG
Wire cross section min. (CSA)	26 AWG		

Clampable wires (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	0.5 mm²	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	4 mm²

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Technical data

Clampable wires (rated connection)

Type of connection	Screw connection	Stripping length	12 mm
Blade size	0.6 x 3.5 mm	Connection direction	on side
Number of connections	2	Clamping range, rated connection, min.	0.13 mm²
Clamping range, rated connection, max.	6 mm²	Clamping screw	M 3
Tightening torque, min.	0.5 Nm	Tightening torque, max.	1 Nm
Gauge to IEC 60947-1	A4	Wire connection cross section, solid core, max. rated connection	0.5 mm²
Wire connection cross section, solid core max. rated connection	6 mm²	Wire connection cross section, stranded, rated connection, min.	0.5 mm²
Wire connection cross section, stranded, rated connection, max.	4 mm²	Wire connection cross section, finely stranded, max.	4 mm²
Wire connection cross-section, finely stranded, min.	0.5 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	4 mm²	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	4 mm²	Twin wire-end ferrules, min.	0.5 mm²
Twin wire-end ferrules, max.	2.5 mm²	Wire connection cross section AWG, min.	AWG 26

Rated data

Rated cross-section	4 mm²	Rated voltage	800 V
Rated impulse withstand voltage	8 kV	Rated current	32 A
Current at maximum wires	41 A	Standards	IEC 60947-7-1
Pollution severity	3		

UL ratings data

Certificate No. (UR)	E60693VOL1SEC14	Voltage size C (UR)	600 V
Current size C (UR)	30 A	Conductor size Factory wiring max. (UR)	10 AWG
Conductor size Factory wiring min. (UR)	22 AWG	Conductor size Field wiring max. (UR)	10 AWG

Material data

Material	PA 66	Colour	Beige
Flammability class UL 94	V-2		

System specifications

Product family	SAK terminal with screw connection	Type of connection	Screw connection
Connection direction	on side	Number of levels	1
Number of connections	2	No. of clamping points per level	2
Levels cross-connected internally	No	End cover plate required	Yes

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Technical data

Classifications

ETIM 2.0	EC000897	ETIM 3.0	EC000897
UNSPSC	30-21-18-11	eClass 4.1	27-14-11-20
eClass 5.1	27-14-11-20	eClass 6.0	27-14-11-20
eClass 7.0	27-14-11-20		

Product information

Descriptive text technical data	With twin ferrules ZH 0.5 to ZH 2.5, rated voltage is 690 V.

Downloads

STEP	0443660000_24195_SAK_4-35_STP.stp

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Accessories

End plate / partition disc

013010 TW für SAK 4

In order to do justice to the different requirements placed on our products, it is necessary to use various insulating materials tailored to the particular application. None of the insulating materials used by Weidmüller contain any hazardous substances. Above all, we ensure that all our materials are free from cadmium. Furthermore, they contain no colour pigments based on heavy metals and do not lead to the formation of dioxin/furan.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0130100000	TW SAK4-10 EP/SW	SAK Series, Partition plate, Black, 2.53 mm	4008190407599	20 pc(s).

Test plugs

The solution with Weidmüller test plugs and sockets guarantees a proper test of the installation.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0299600000	PS 4 F.STB 4	General accessories, Test plug	4008190074043	20 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 electronics mdoules. The system is ideal for small groups of consecutive numbers and covers a large range of ready-printed markers.
Being mounted as strips means that they are quickly clipped on in one operation. The printing is legible with good contrast, and is available in five widths.

- Large selection of ready-to-use markers
- In strips for fast installation
- Connector markers are suitable for all Weidmüller conductor connectors
- Available as blank cards, MultiCard or as cards with standard printing

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1609850000	DEK 5/6.5 MC BEDRUCKT	Terminal markers, MultiCard, 5 x 6.5 mm, Polyamide 66, Colour: To customer specification	4008190456610	180 pc(s).

Removable crossconnection links

Some 60% of all modular terminals have a cross-connection.
Weidmüller has a huge range of solutions on offer.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0285100000	VH 19/5/3.5 SAK4-16	SAK Series, Connecting sleeve, for cross-connection link, No. of poles: 1	4008190189297	50 pc(s).
0197000000	VL 2 SAK4	SAK Series, Cross-connection lug, for cross-connection link, No. of poles: 2	4008190000271	50 pc(s).
0292500000	BFSC M3X25	General accessories, Fixing screw, for cross-connection link, 25 mm	4008190177027	100 pc(s).

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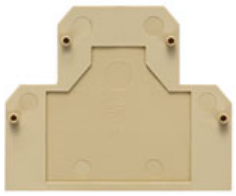
Accessories

AP end cover plates



Apart from a few exceptions, the last terminal in a terminal strip must be closed off with an AP end plate. End plates must also be used within a terminal strip when it makes use of terminals of different sizes .
The overall dimensions of the end plates match the external dimensions of the associated terminal. The end plate is held in place by the end bracket.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0117960000	AP SAK4-10	SAK Series, End plate, 1.5 mm, Beige, Direct mounting	4008190081485	20 pc(s).
0117920000	AP SAK4-10 KRG	SAK Series, End plate, 1.5 mm, Dark beige, Yellow, Direct mounting	4008190135904	20 pc(s).
0117970000	AP SAK4-10 KRG/BL	SAK Series, End plate, 1.5 mm, Blue, Direct mounting	4008190049607	20 pc(s).
0117980000	AP SAK4-10 BL	SAK Series, End plate, 1.5 mm, Blue, Direct mounting	4008190171087	20 pc(s).
0117930000	AP SAK4-10 KRS	SAK Series, End plate, 1.5 mm, Anthracite, Direct mounting	4008190049553	20 pc(s).

connecting sleeve

VH 12/4.9/3.3 024900

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Weidmüller has a huge range of solutions on offer.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0248500000	VH 13.5/4.9/3.3 SAK4	SAK Series, Connecting sleeve, for cross-connection link, No. of poles: 1	4008190022723	100 pc(s).

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Accessories

Plasic screws

Electrical systems should always be operated in a safe condition. Weidmüller therefore has a large range of covers and marking materials.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0128900000	BFSC M3X22 PA/RT	General accessories, Fixing screw, for cross-connection link, 22 mm	4008190084158	100 pc(s).

Q ... SAK

This type of cross-connection has a pre-assembled captive cross-connection lug, cross-connection sleeve and fixing screw.
All the individual parts are available separately on request.
During installation, the pre-assembled cross-connectors are simply placed in the cross-connection slot in the middle of the terminal and screwed tight.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0336900000	Q 4 SAK4	SAK Series, Cross-connector, for cross-connection link, No. of poles: 4	4008190036201	50 pc(s).
0368800000	Q 10 SAK4	SAK Series, Cross-connector, for cross-connection link, No. of poles: 10	4008190049478	20 pc(s).
0336800000	Q 3 SAK4	SAK Series, Cross-connector, for cross-connection link, No. of poles: 3	4008190089795	50 pc(s).
0336700000	Q 2 SAK4	SAK Series, Cross-connector, for cross-connection link, No. of poles: 2	4008190033842	50 pc(s).

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Accessories

TSCH

In order to maintain the rated voltage it is necessary to use the partition walls TW or the partition discs TSch in the products WDL, SAKT und WTL.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0319160000	TSCH 1	General accessories, Small partition, Beige, 2 mm	4008190097219	100 pc(s).
0353660000	TSCH 2	General accessories, Small partition, Beige, 0.6 mm	4008190128432	100 pc(s).

StB 5.5 ... 17

The SAKR disconnect terminals are available already fitted with sockets (see disconnect terminals). The sockets are equipped with a slit so that they can be actuated with a screwdriver. Weidmüller can supply special screwdrivers with a shoulder for this purpose.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0168600000	STB 14/D5/2.3/M3 SAK2.5	SAK Series, Socket	4008190135225	50 pc(s).

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Accessories

Blank

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- Large selection of ready-to-use markers
- In strips for fast installation
- Connector markers are suitable for all Weidmüller conductor connectors
- Available as blank cards, MultiCard or as cards with standard printing

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1609840000	DEK 5/6.5 MC NEUTRAL	Terminal markers, MultiCard, 5 x 6.5 mm, Polyamide, Colour: White	4008190203429	900 pc(s).

AD 3 (4-pole)

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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0285300000	AD 4 SAK4	SAK Series, cover plate, Yellow, 25.6 mm	4008190072902	50 pc(s).

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