

SAK 4/35 BL**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.

General ordering data

Version	Feed-through terminal block, Screw connection, 4 mm ² , 800 V, 32 A, Number of connections: 2
Order No.	0443680000
Type	SAK 4/35 BL
GTIN (EAN)	4008190003869
Qty.	100 pc(s).
Alternative product	1020180000

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Technical data

Dimensions and weights

Depth	44 mm	Depth (inches)	1.732 inch
Height	45 mm	Height (inches)	1.772 inch
Width	6.5 mm	Width (inches)	0.256 inch
Net weight	9.09 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	blue
UL 94 flammability rating	V-2		

Rating data IECEx/ATEX

Certificate No. (ATEX)	TUEV18ATEX8207U	Certificate No. (IECEX)	IECEXTUR18.0017U
Max. voltage (ATEX)	550 V	Current (ATEX)	32 A
Wire cross section max. (ATEX)	6 mm ²	Max. voltage (IECEX)	550 V
Current (IECEX)		Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
	32 A		
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 35	N-function	Yes
PE function	No	PEN function	No

Additional technical data

Explosion-tested version	Yes	Installation advice	Direct mounting
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)	36 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 mm²

Connection type, additional connection

Screw connection

Conductors for clamping (rated connection)

Blade size 0.6 x 3.5 mm

Clamping range, min. 0.13 mm²Connection cross-section, stranded, max. 4 mm²

Connection direction on side

Number of connections 2

Tightening torque, max. 1 Nm

Torque level with DMS electric screwdriver 2

Twin wire-end ferrules, min. 0.5 mm²

Wire connection cross section AWG, min. AWG 26

Wire connection cross section, finely stranded, min. 0.5 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. 0.5 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. 0.5 mm²Wire connection cross-section, solid core, min. 0.5 mm²Clamping range, max. 6 mm²

Clamping screw M 3

Connection cross-section, stranded, min. 0.5 mm²

Gauge to IEC 60947-1 A4

Stripping length 12 mm

Tightening torque, min. 0.5 Nm

Twin wire-end ferrules, max. 2.5 mm²

Type of connection Screw connection

Wire connection cross section, finely stranded, max. 4 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. 4 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. 4 mm²Wire connection cross-section, solid core, max. 6 mm²

General

Installation advice Direct mounting

Standards IEC 60947-7-1

Rail TS 35

Wire connection cross section AWG, min. AWG 26

Rating data

Rated cross-section 4 mm²

Rated DC voltage 800 V

Current at maximum wires 41 A

Volume resistance according to IEC 60947-7-x 1 mΩ

Power loss in accordance with IEC 60947-7-x 1.02 W

Rated voltage 800 V

Rated current 32 A

Standards IEC 60947-7-1

Rated impulse withstand voltage 8 kV

Pollution severity 3

UL rating data

Certificate No. (UR) E60693

Conductor size Factory wiring min. (UR) 22 AWG

Conductor size Field wiring min. (UR) 22 AWG

Voltage size C (UR) 600 V

Conductor size Factory wiring max. (UR) 10 AWG

Conductor size Field wiring max. (UR) 10 AWG

Current size C (UR) 30 A

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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	27-25-01-01

Environmental Product Compliance

REACH SVHC

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Approvals

Approvals



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

Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity CFAT SAK 4/35 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
Catalogues	Catalogues in PDF-format

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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

Type	DEK 5/6.5 MC SDR	Version
Order No.	1609850000	Dekafix, Terminal marker, 5 x 6.5 mm, Pitch in mm (P): 6.50
GTIN (EAN)	4008190456610	Weidmueller, To customer specification
Qty.	180 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 M3X22 PA/RT	Version
Order No.	0128900000	Mounting screw (Terminal)
GTIN (EAN)	4008190084158	
Qty.	100 pc(s).	

Type	BFSC M3X25	Version
Order No.	0292500000	Mounting screw (Terminal)
GTIN (EAN)	4008190177027	
Qty.	100 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.

General ordering data

Type	Q 4 SAK4	Version
Order No.	0336900000	Cross-connector (terminal), when screwed in, Number of poles: 4,
GTIN (EAN)	4008190036201	Pitch in mm (P): 6.00, Insulated: No, 32 A, grey
Qty.	50 pc(s).	
Type	Q 3 SAK4	Version
Order No.	0336800000	Cross-connector (terminal), when screwed in, Number of poles: 3,
GTIN (EAN)	4008190089795	Pitch in mm (P): 6.00, Insulated: No, 32 A, grey
Qty.	50 pc(s).	
Type	Q 2 SAK4	Version
Order No.	0336700000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190033842	Pitch in mm (P): 6.00, Insulated: No, 32 A, grey
Qty.	50 pc(s).	
Type	Q 10 SAK4	Version
Order No.	0368800000	Cross-connector (terminal), when screwed in, Number of poles: 10,
GTIN (EAN)	4008190049478	Pitch in mm (P): 6.00, Insulated: No, 32 A, grey
Qty.	20 pc(s).	

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	Small partition (terminal), PA 66, beige, Continuous operating temp.,
GTIN (EAN)	4008190097219	max.: 100 °C
Qty.	100 pc(s).	
Type	TW 4 SAK4-10 BL	Version
Order No.	0130180000	Partition plate (terminal), Intermediate plate, 50 mm x 44 mm, blue
GTIN (EAN)	4008190114138	
Qty.	20 pc(s).	

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Accessories

Type	TSCH 2	Version
Order No.	0353660000	Small partition (terminal), PA 66, beige, Continuous operating temp.,
GTIN (EAN)	4008190128432	max.: 100 °C
Qty.	100 pc(s).	
Type	TW 4 SAK4-10	Version
Order No.	0130160000	Partition plate (terminal), Intermediate plate, 50 mm x 44 mm, beige
GTIN (EAN)	4008190096335	
Qty.	20 pc(s).	

Connection sleeves



General ordering data

Type	VH 19/5/3.4	Version
Order No.	0285100000	Connecting sleeve (terminal), Height: 5 mm, Width: 5 mm, Depth:
GTIN (EAN)	4008190189297	17.5 mm, Cu Zn
Qty.	50 pc(s).	
Type	VL 2 SAK4	Version
Order No.	0197000000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190000271	Pitch in mm (P): 6.50, Insulated: No, 32 A, grey
Qty.	50 pc(s).	
Type	VH 13.5/4.9/3.3	Version
Order No.	0248500000	Connecting sleeve (terminal), Height: 4.9 mm, Width: 4.9 mm, Depth:
GTIN (EAN)	4008190022723	13.5 mm, Copper
Qty.	100 pc(s).	

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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.

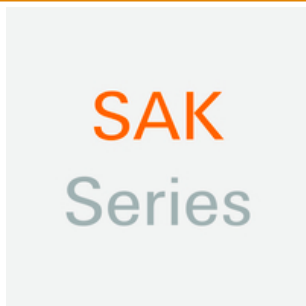
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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 5/6.5 MC NE WS	Version
Order No.	1609840000	Dekafix, Terminal marker, 5 x 6.5 mm, Pitch in mm (P): 6.50
GTIN (EAN)	4008190203429	Weidmueller, white
Qty.	900 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 4 SAK4	Version
Order No.	0285300000	Terminal cover, PVC, yellow, Height: 25 mm, Width: 25.6 mm, Depth:
GTIN (EAN)	4008190072902	1 mm
Qty.	50 pc(s).	

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Accessories

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

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	Version
Order No.	0180400000	Test adapter (terminal), 230 V, 20 mA
GTIN (EAN)	4008190060121	
Qty.	20 pc(s).	

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www.weidmueller.com**Accessories****SAK-Series**

SAK Series

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	STA 1/ZA SAK4-10	Version
Order No.	1632450000	Test adapter (terminal), 250 V
GTIN (EAN)	4008190209636	
Qty.	25 pc(s).	

SAK-Series

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 SAK4-10 DB	Version
Order No.	0105100000	End plate (terminals), 40 mm x 1.5 mm, dark beige
GTIN (EAN)	4008190394875	
Qty.	20 pc(s).	
Type	AP SAK4-10 BL	Version
Order No.	0117980000	End plate (terminals), 40 mm x 1.5 mm, blue
GTIN (EAN)	4008190171087	
Qty.	20 pc(s).	
Type	AP SAK4-10 RT	Version
Order No.	0117900000	End plate (terminals), 40 mm x 1.5 mm, red
GTIN (EAN)	4008190125059	
Qty.	20 pc(s).	
Type	AP SAK4-10	Version
Order No.	0117960000	End plate (terminals), 40 mm x 1.5 mm, beige
GTIN (EAN)	4008190081485	
Qty.	20 pc(s).	

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www.weidmueller.com**Accessories****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 snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

General ordering data

Type	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).	