

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, blue, 4 mm ² , 32 A, 800 V, Number of connections: 2
Order No.	0443680000
Type	SAK 4/35 BL
GTIN (EAN)	4008 190003869
Qty.	100 items
Alternative product	WDU 4 BL

SAK 4/35 BL

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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	44 mm	Depth (inches)	1.7323 inch
Height	45 mm	Height (inches)	1.7716 inch
Width	6.5 mm	Width (inches)	0.2559 inch
Net weight	8 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-50 °C...55 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	100 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Basic 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)	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
Mounting rail	TS 35	N-function	Yes
PE function	No	PEN function	No

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Additional technical data

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

CSA rating data

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

Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	4 mm ²	Connection type, additional connection	Screw connection
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Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A4	Wire connection cross section AWG, max.	AWG 10
Connection direction	on side	Tightening torque, max.	1 Nm
Tightening torque, min.	0.5 Nm	Stripping length	12 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	6 mm ²	Clamping range, min.	0.13 mm ²
Clamping screw	M 3	Blade size	0.6 x 3.5 mm
Wire connection cross section AWG, min.	AWG 26	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	4 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.13 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	4 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.13 mm ²	Wire connection cross section, finely stranded, max.	4 mm ²
Wire connection cross section, finely stranded, min.	0.13 mm ²	Connection cross-section, stranded, max.	4 mm ²
Connection cross-section, stranded, min.	0.13 mm ²	Twin wire-end ferrules, max.	2.5 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Torque level with DMS electric screwdriver	2
Wire connection cross-section, solid core, max.	6 mm ²	Wire connection cross-section, solid core, min.	0.13 mm ²
Connection cross-section, finely stranded, min.	0.13 mm ²		

General

Wire connection cross section AWG, max.	AWG 10	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 26	Standards	IEC 60947-7-1
Mounting rail	TS 35		

Rating data

Rated cross-section	4 mm ²	Rated voltage	800 V
Rated DC voltage	800 V	Nominal current	32 A

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Current at maximum wires	41 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.02 W	Pollution severity	3

UL rating data

Conductor size Factory wiring max. (UR)	10 AWG	Current size C (UR)	30 A
Voltage size C (UR)	600 V	Conductor size Factory wiring min. (UR)	22 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	22 AWG
Conductor size Field wiring max. (UR)	10 AWG		

Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	Q 2 SAK4	Version	
Order No.	0336700000	Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 2, Pitch in mm (P): 6.00, Insulated: No, Width: 11 mm	
GTIN (EAN)	4008190033842		
Qty.	50 ST		

Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

General ordering data

Type	Q 3 SAK4	Version	
Order No.	0336800000	Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 3, Pitch in mm (P): 6.00, Insulated: No, Width: 18 mm	
GTIN (EAN)	4008190089795		
Qty.	50 ST		

Cross-connections



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General ordering data

Type	Q 4 SAK4	Version	
Order No.	0336900000	Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 4, Pitch in mm (P): 6.00, Insulated: No, Width: 24.5 mm	
GTIN (EAN)	4008190036201		
Qty.	50 ST		

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General ordering data

Type	Q 10 SAK4	Version	
Order No.	0368800000	Cross-connector (terminal), when screwed in, grey, 32 A, Number of	
GTIN (EAN)	4008190049478	poles: 10, Pitch in mm (P): 6.00, Insulated: No, Width: 63.5 mm	
Qty.	20 ST		

End plates and partition plates



Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

Type	AP SAK4-10	Version	
Order No.	0117960000	End plate for terminals, beige, Height: 40 mm, Width: 1.5 mm, V-2,	
GTIN (EAN)	40081900081485	PA 66, Snap-on: Yes	
Qty.	20 ST		
Type	AP SAK4-10 DB	Version	
Order No.	0105100000	End plate for terminals, dark beige, Height: 40 mm, Width: 1.5 mm,	
GTIN (EAN)	4008190394875	V-0, Wemid, Snap-on: Yes	
Qty.	20 ST		
Type	AP SAK4-10 BL	Version	
Order No.	0117980000	End plate for terminals, blue, Height: 40 mm, Width: 1.5 mm, V-2, PA	
GTIN (EAN)	4008190171087	66, Snap-on: Yes	
Qty.	20 ST		
Type	AP SAK4-10 RT	Version	
Order No.	0117900000	End plate for terminals, red, Height: 40 mm, Width: 1.5 mm, V-2, PA	
GTIN (EAN)	4008190125059	66, Snap-on: Yes	
Qty.	20 ST		
Type	TW 4 SAK4-10	Version	
Order No.	0130160000	Partition plate (terminal), beige, Height: 50 mm, Width: 1.5 mm, V-2,	
GTIN (EAN)	4008190096335	PA 66	
Qty.	20 ST		

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Type	TW 4 SAK4-10 BL	Version
Order No.	0130180000	Partition plate (terminal), blue, Height: 50 mm, Width: 1.5 mm, V-2,
GTIN (EAN)	4008190114138	PA 66
Qty.	20 ST	
Type	TSCH 1	Version
Order No.	0319160000	Small partition (terminal), PA 66, beige, Continuous operating temp.,
GTIN (EAN)	4008190097219	max.: 100 °C
Qty.	100 ST	
Type	TSCH 2	Version
Order No.	0353660000	Small partition (terminal), PA 66, beige, Continuous operating temp.,
GTIN (EAN)	4008190128432	max.: 100 °C
Qty.	100 ST	

Testadapter and 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 ST	

Mounting support



We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

General ordering data

Type	BFSC M3X22 PA/RT	Version
Order No.	0128900000	Mounting screw (Terminal), 3.00 mm, Polyamide 66, Depth: 4.8 mm,
GTIN (EAN)	4008190084158	Width: 4.8 mm, Height: 22 mm
Qty.	100 ST	
Type	BFSC M3X25	Version
Order No.	0292500000	Mounting screw (Terminal), 3.00 mm, Steel, Depth: 4.8 mm, Width:
GTIN (EAN)	4008190177027	4.8 mm, Height: 25 mm
Qty.	100 ST	

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Cross-connections



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General ordering data

Type	VH 13.5/4.9/3.3	Version	
Order No.	0248500000	Connecting sleeve (terminal), when screwed in, Width: 4.9 mm,	
GTIN (EAN)	4008190022723	Height: 4.9 mm, Depth: 13.5 mm, Number of poles: 1, Copper	
Qty.	100 ST		
Type	VH 19/5/3.4	Version	
Order No.	0285100000	Connecting sleeve (terminal), when screwed in, Width: 5 mm, Height:	
GTIN (EAN)	4008190189297	5 mm, Depth: 17.5, Number of poles: 1, Cu Zn	
Qty.	50 ST		

Testadapter and testsockets



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General ordering data

Type	PS 2.3 RT	Version	
Order No.	0180400000	Test adapter (terminal), 230 V, 20 mA	
GTIN (EAN)	4008190060121		
Qty.	20 ST		

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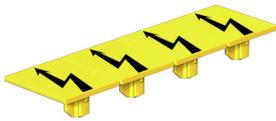
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Accessories

General ordering data

Type	VL 2 SAK4	Version	
Order No.	0197000000	Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 2, Pitch in mm (P): 6.50, Insulated: No, Width: 6 mm	
GTIN (EAN)	4008190000271		
Qty.	50 ST		

Warning cover



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, yellow, PVC, Height: 25 mm, Width: 25.6 mm, Depth: 1 mm, V-2	
GTIN (EAN)	4008190072902		
Qty.	50 ST		

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 5/6.5 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 ST		

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Custom printing



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 - 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 ST	

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

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Testadapter and testsockets



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General ordering data

Type	STA 1/ZA SAK4-10	Version	
Order No.	1632450000	Test adapter (terminal), 1.5 mm ² , 250 V, 0.2 A	
GTIN (EAN)	4008190209636		
Qty.	25 ST		