

**SAK 6/35 PA/BL****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, 6 mm <sup>2</sup> , 800 V, 41 A, Number of connections: 2
Order No.	<a href="#">0380580000</a>
Type	SAK 6/35 PA/BL
GTIN (EAN)	4008190029050
Qty.	100 pc(s).
Alternative product	<a href="#">1020280000</a>

## SAK 6/35 PA/BL

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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	8 mm	Width (inches)	0.315 inch
Net weight	13.39 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)	41 A
Wire cross section max. (ATEX)	10 mm <sup>2</sup>	Max. voltage (IECEX)	550 V
Current (IECEX)	41 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 eb II C Gb

## 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	No
PE function	No	PEN function	No

## Additional technical data

Explosion-tested version	Yes	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)	47 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	8 AWG
Wire cross section min. (CSA)	20 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.

6 mm<sup>2</sup>

Connection type, additional connection

Screw connection

## Conductors for clamping (rated connection)

Blade size 4.0 x 0.8 mm

Clamping range, min. 0.33 mm<sup>2</sup>Connection cross-section, stranded, max. 6 mm<sup>2</sup>

Connection direction on side

Number of connections 2

Tightening torque, max. 1.6 Nm

Torque level with DMS electric screwdriver 3

Twin wire-end ferrules, min. 0.5 mm<sup>2</sup>

Wire connection cross section AWG, max. AWG 8

Wire connection cross section, finely stranded, max. 10 mm<sup>2</sup>Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. 6 mm<sup>2</sup>Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. 6 mm<sup>2</sup>Wire connection cross-section, solid core, max. 10 mm<sup>2</sup>Clamping range, max. 10 mm<sup>2</sup>

Clamping screw M 3.5

Connection cross-section, stranded, min. 0.5 mm<sup>2</sup>

Gauge to IEC 60947-1 A5

Stripping length 12 mm

Tightening torque, min. 0.8 Nm

Twin wire-end ferrules, max. 4 mm<sup>2</sup>

Type of connection Screw connection

Wire connection cross section AWG, min. AWG 22

Wire connection cross section, finely stranded, min. 0.5 mm<sup>2</sup>Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. 0.5 mm<sup>2</sup>Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. 0.5 mm<sup>2</sup>Wire connection cross-section, solid core, min. 0.5 mm<sup>2</sup>

## Dimensions

TS 35 offset 31.7 mm

## General

Rail TS 35

Wire connection cross section AWG, max. AWG 8

Standards IEC 60947-7-1

Wire connection cross section AWG, min. AWG 22

## Rating data

Rated cross-section 6 mm<sup>2</sup>

Rated DC voltage 800 V

Current at maximum wires 57 A

Volume resistance according to IEC 60947-7-x 0.78 mΩ

Power loss in accordance with IEC 60947-7-x 1.31 W

Rated voltage 800 V

Rated current 41 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) 8 AWG

Conductor size Field wiring max. (UR) 8 AWG

Current size C (UR) 40 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

## Approvals

Approvals



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

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">Attestation of Conformity</a> <a href="#">CFAT SAK 16/35</a> <a href="#">UKCA Ex Attestation of Conformity</a> <a href="#">CB Certificate</a> <a href="#">CB Test Certificate</a> <a href="#">DNVGL certificate</a> <a href="#">Lloyds Register Certificate</a> <a href="#">IECEX Certificate</a> <a href="#">ATEX Certificate</a> <a href="#">Declaration of Conformity</a> <a href="#">UKCA declaration of conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Product Change Notification	<a href="#">20210308 Technical Change SAK PA 35</a>
User Documentation	<a href="#">Usage of terminals in EXi atmospheres</a> <a href="#">StorageConditionsTerminalBlocks</a> <a href="#">NTI SAK 6/35</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

## SAK 6/35 PA/BL

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## Accessories

## 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.	<a href="#">0292500000</a>	Mounting screw (Terminal)
GTIN (EAN)	4008190177027	
Qty.	100 pc(s).	
Type	BFSC M3X22 PA/RT	Version
Order No.	<a href="#">0128900000</a>	Mounting screw (Terminal)
GTIN (EAN)	4008190084158	
Qty.	100 pc(s).	

## 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 5/8 PLUS MC SDR	Version
Order No.	<a href="#">1046370000</a>	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.	<a href="#">1856750000</a>	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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## Accessories

## 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 SAK6N	Version
Order No.	<a href="#">0196600000</a>	Terminal cover, PVC, yellow, Height: 25 mm, Width: 31.6 mm, Depth:
GTIN (EAN)	4008190169336	1 mm
Qty.	50 pc(s).	

## 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 BL	Version
Order No.	<a href="#">0117980000</a>	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.	<a href="#">0117900000</a>	End plate (terminals), 40 mm x 1.5 mm, red
GTIN (EAN)	4008190125059	
Qty.	20 pc(s).	
Type	AP SAK4-10	Version
Order No.	<a href="#">0117960000</a>	End plate (terminals), 40 mm x 1.5 mm, beige
GTIN (EAN)	4008190081485	
Qty.	20 pc(s).	
Type	AP SAK4-10 DB	Version
Order No.	<a href="#">0105100000</a>	End plate (terminals), 40 mm x 1.5 mm, dark beige
GTIN (EAN)	4008190394875	
Qty.	20 pc(s).	

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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

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**General ordering data**

Type	DEK 5/8 PLUS MC NE WS	Version
Order No.	<a href="#">1046350000</a>	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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## 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.	<a href="#">2007130000</a>	Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, white
GTIN (EAN)	4050118392012	
Qty.	500 pc(s).	

## 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.	<a href="#">1805490000</a>	Accessories, Marker holder
GTIN (EAN)	4032248270231	
Qty.	100 pc(s).	
Type	BZT 1 ZA WS 10/5	Version
Order No.	<a href="#">1805520000</a>	Accessories, Marker holder
GTIN (EAN)	4032248270248	
Qty.	100 pc(s).	



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## 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.	<a href="#">1632450000</a>	Test adapter (terminal), 250 V
GTIN (EAN)	4008190209636	
Qty.	25 pc(s).	

## Blank



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- 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

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## General ordering data

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

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## 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	TW 4 SAK4-10	Version
Order No.	<a href="#">0130160000</a>	Partition plate (terminal), Intermediate plate, 50 mm x 44 mm, beige
GTIN (EAN)	4008190096335	
Qty.	20 pc(s).	
Type	TW 4 SAK4-10 BL	Version
Order No.	<a href="#">0130180000</a>	Partition plate (terminal), Intermediate plate, 50 mm x 44 mm, blue
GTIN (EAN)	4008190114138	
Qty.	20 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 3 SAK6N	Version
Order No.	<a href="#">0456800000</a>	Cross-connector (terminal), when screwed in, Number of poles: 3,
GTIN (EAN)	4008190110277	Pitch in mm (P): 6.00, Insulated: No, 41 A, grey
Qty.	50 pc(s).	
Type	Q 10 SAK6N	Version
Order No.	<a href="#">0457000000</a>	Cross-connector (terminal), when screwed in, Number of poles: 10,
GTIN (EAN)	4008190153762	Pitch in mm (P): 8.00, Insulated: No, 41 A, grey
Qty.	20 pc(s).	
Type	Q 2 SAK6N	Version
Order No.	<a href="#">0456700000</a>	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190150044	Pitch in mm (P): 6.00, Insulated: No, 41 A, grey
Qty.	50 pc(s).	
Type	Q 4 SAK6N	Version
Order No.	<a href="#">0456900000</a>	Cross-connector (terminal), when screwed in, Number of poles: 4,
GTIN (EAN)	4008190032579	Pitch in mm (P): 6.00, Insulated: No, 41 A, grey
Qty.	50 pc(s).	

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## 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.	<a href="#">0299600000</a>	Test adapter (terminal)
GTIN (EAN)	4008190074043	
Qty.	20 pc(s).	

## Connection sleeves



## General ordering data

Type	VL 2 SAK6N/SAKT	Version
Order No.	<a href="#">0194700000</a>	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190148027	Pitch in mm (P): 8.00, Insulated: No, 32 A, grey
Qty.	50 pc(s).	
Type	VH 19/5/3.4	Version
Order No.	<a href="#">0285100000</a>	Connecting sleeve (terminal), Height: 5 mm, Width: 5 mm, Depth:
GTIN (EAN)	4008190189297	17.5 mm, Cu Zn
Qty.	50 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**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/D6/4/M3 SAK10	Version
Order No.	<a href="#">0169900000</a>	Accessories, Socket
GTIN (EAN)	4008190076665	
Qty.	50 pc(s).	