SAK 10/35 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, 10 mm², 800 V, 57 A, Number of connections: 2
Order No.	0443780000
Type	SAK 10/35 BL
GTIN (EAN)	4008190152512
Qty.	100 pc(s).
Alternative product	1020380000

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Technical data

Dimensions and weights

Depth	51.5 mm	Depth (inches)	2.028 inch
Height	45 mm	Height (inches)	1.772 inch
Width	10 mm	Width (inches)	0.394 inch
Net weight	17.88 g		

Temperatures

Storage temperature	-25 °C...55 °C	Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
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
Current (ATEX)	57 A	Wire cross section max. (ATEX)	16 mm²
Max. voltage (IECEX)	550 V	Current (IECEX)	57 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 35	N-function	Yes
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)	65 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	6 AWG
Wire cross section min. (CSA)	16 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.	10 mm²	Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Blade size	1.0 x 5.5 mm	Clamping range, max.	16 mm²
Clamping range, min.	1.5 mm²	Clamping screw	M 4
Connection cross-section, stranded, max.	16 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection direction	on side	Gauge to IEC 60947-1	B6
Number of connections	2	Stripping length	12 mm
Tightening torque, max.	2.4 Nm	Tightening torque, min.	2 Nm
Torque level with DMS electric screwdriver	4	Twin wire-end ferrules, max.	6 mm²
Twin wire-end ferrules, min.	0.75 mm²	Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 6	Wire connection cross section AWG, min.	AWG 14
Wire connection cross section, finely stranded, max.	16 mm²	Wire connection cross section, finely stranded, min.	1.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	10 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	1.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	10 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1.5 mm²
Wire connection cross-section, solid core, max.	10 mm²	Wire connection cross-section, solid core, min.	1.5 mm²

General

Rail	TS 35	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 6	Wire connection cross section AWG, min.	AWG 14

Rating data

Rated cross-section	10 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	57 A
Current at maximum wires	76 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.56 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.82 W	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	6 AWG
Conductor size Factory wiring min. (UR)	14 AWG	Conductor size Field wiring max. (UR)	6 AWG
Conductor size Field wiring min. (UR)	14 AWG	Current size C (UR)	60 A
Voltage size C (UR)	600 V		

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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	Attestation Of Conformity CFAT SAK 10/35 UKCA Ex Attestation of Conformity 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	StorageConditionsTerminalBlocks NTI SAK 10/35
Catalogues	Catalogues in PDF-format

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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 5/6.5 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).	

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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Accessories

Connection sleeves

General ordering data

Type	VL 2 SAK6/10/SAKB	Version
Order No.	0135900000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190036409	Pitch in mm (P): 6.50, Insulated: No, 32 A, grey
Qty.	50 pc(s).	
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).	

Custom printing

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- Terminal markers, suitable for all Weidmüller cable connectors
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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).	

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Accessories

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- 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.	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248400850	Weidmueller, white
Qty.	800 pc(s).	

TS 32

Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

Type	EWK 1	Version
Order No.	0206160000	End bracket, Wemid, beige, Rail: TS 32, when screwed in
GTIN (EAN)	4008190080020	
Qty.	50 pc(s).	

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Accessories

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).	

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.	0169900000	Accessories, Socket
GTIN (EAN)	4008190076665	
Qty.	50 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 BL	Version
Order No.	0130180000	Partition plate (terminal), Intermediate plate, 50 mm x 44 mm, blue
GTIN (EAN)	4008190114138	
Qty.	20 pc(s).	
Type	TW SAK4-10 HP/DBR/0.5	Version
Order No.	0197100000	Partition plate (terminal), Intermediate plate, 40 mm x 55 mm, brown,
GTIN (EAN)	4008190146627	dark beige
Qty.	20 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).	

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 SAK10	Version
Order No.	0178600000	Terminal cover, PVC, yellow, Height: 39.6 mm, Width: 25 mm, Depth:
GTIN (EAN)	4008190068288	1 mm
Qty.	50 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 3 SAK10	Version
Order No.	0457200000	Cross-connector (terminal), when screwed in, Number of poles: 3,
GTIN (EAN)	4008190135379	Pitch in mm (P): 9.90, Insulated: No, 57 A, grey
Qty.	50 pc(s).	
Type	Q 2 SAK10	Version
Order No.	0457100000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190103545	Pitch in mm (P): 9.90, Insulated: No, 57 A, grey
Qty.	50 pc(s).	
Type	Q 10 SAK10	Version
Order No.	0457400000	Cross-connector (terminal), when screwed in, Number of poles: 10,
GTIN (EAN)	4008190016166	Pitch in mm (P): 9.90, Insulated: No, 57 A, grey
Qty.	20 pc(s).	
Type	Q 4 SAK10	Version
Order No.	0457300000	Cross-connector (terminal), when screwed in, Number of poles: 4,
GTIN (EAN)	4008190129750	Pitch in mm (P): 9.90, Insulated: No, 57 A, grey
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 4 F.STB 4	Version
Order No.	0299600000	Test adapter (terminal)
GTIN (EAN)	4008190074043	
Qty.	20 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).	

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).	

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Accessories

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).	

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

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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).	

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General ordering data

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).	

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).	

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

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 snaped 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).	

SAK-Series

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General ordering data

Type	EW 35	Version
Order No.	0383560000	End bracket, Wemid, beige, Rail: TS 35, when screwed in
GTIN (EAN)	4008190181314	
Qty.	50 pc(s).	

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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).	