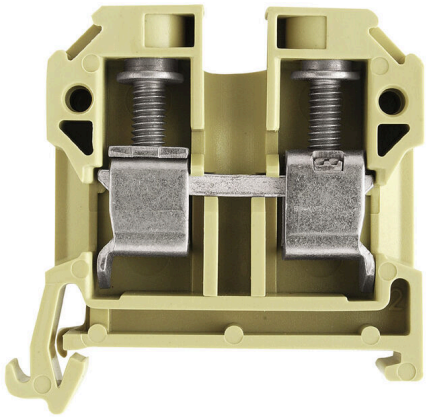
Data sheet

SAK 10/35

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, beige / yellow, 10 mm², 57 A, 800 V, Number of connections: 2
Order No.	0443760000
Type	SAK 10/35
GTIN (EAN)	4008190136949
Qty.	100 items
Alternative product	WDU 10

SAK 10/35

Weidmüller Interface GmbH & Co. KG
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Technical data

Approvals

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

Dimensions and weights

Depth	51.5 mm	Depth (inches)	2.0276 inch
Height	45 mm	Height (inches)	1.7716 inch
Width	10 mm	Width (inches)	0.3937 inch
Net weight	18.09 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	beige / yellow
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	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	No
PE function	No	PEN function	No

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Technical data

Additional technical data

Open sides	right	Number of similar terminals	1
Explosion-tested version	No	Type of mounting	Snap-on

CSA rating data

Wire cross section max. (CSA)	6 AWG	Voltage size C (CSA)	600 V
Current size C (CSA)	65 A	Certificate No. (CSA)	154685-1501714
Wire cross section min. (CSA)	14 AWG		

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)

Gauge to IEC 60947-1	B6	Wire connection cross section AWG, max.	AWG 6
Connection direction	on side	Tightening torque, max.	2.64 Nm
Tightening torque, min.	2 Nm	Stripping length	12 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	16 mm²	Clamping range, min.	1.5 mm²
Clamping screw	M 4	Blade size	1.0 x 5.5 mm
Wire connection cross section AWG, min.	AWG 14	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, 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, max.	16 mm²
Wire connection cross section, finely stranded, min.	1.5 mm²	Connection cross-section, stranded, max.	16 mm²
Connection cross-section, stranded, min.	1.5 mm²	Twin wire-end ferrules, max.	6 mm²
Twin wire-end ferrules, min.	0.75 mm²	Torque level with DMS electric screwdriver	4
Wire connection cross-section, solid core, max.	10 mm²	Wire connection cross-section, solid core, min.	1.5 mm²
Connection cross-section, finely stranded, min.	1.5 mm²		

General

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

Rating data

Rated cross-section	10 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Nominal 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

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Technical data

UL rating data

Conductor size Factory wiring max. (UR)	6 AWG	Current size C (UR)	60 A
Voltage size C (UR)	600 V	Conductor size Factory wiring min. (UR)	14 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	14 AWG
Conductor size Field wiring max. (UR)	6 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 SAK10	Version
Order No.	0457100000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of
GTIN (EAN)	4008190103545	poles: 2, Pitch in mm (P): 9.90, Insulated: No, Width: 16.9 mm
Qty.	50 ST	
Type	Q 3 SAK10	Version
Order No.	0457200000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of
GTIN (EAN)	4008190135379	poles: 3, Pitch in mm (P): 9.90, Insulated: No, Width: 26.8 mm
Qty.	50 ST	
Type	Q 4 SAK10	Version
Order No.	0457300000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of
GTIN (EAN)	4008190129750	poles: 4, Pitch in mm (P): 9.90, Insulated: No, Width: 36.7 mm
Qty.	50 ST	
Type	Q 10 SAK10	Version
Order No.	0457400000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of
GTIN (EAN)	4008190016166	poles: 10, Pitch in mm (P): 9.90, Insulated: No, Width: 96.1 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)	4008190081485	PA 66, 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	

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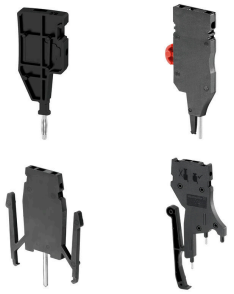
Accessories

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 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	
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	TW SAK4-10 HP/DBR/0.5	Version
Order No.	0197100000	Partition plate (terminal), brown, dark beige, Height: 40 mm, Width:
GTIN (EAN)	4008190146627	0.5 mm, V-2, PA 66
Qty.	20 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	PS 4 F.STB 4	Version
Order No.	0299600000	Test adapter (terminal), 230 V
GTIN (EAN)	4008190074043	
Qty.	20 ST	

Accessorie

Current and voltage transformer wiring
Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

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Accessories

General ordering data

Type	STB 14/D6/4/M3 SAK10	Version
Order No.	0169900000	Accessories, Socket
GTIN (EAN)	4008190076665	
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 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	

Cross-connections

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General ordering data

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	
Type	VL 2 SAK6/10/SAKB	Version
Order No.	0135900000	Cross-connector (terminal), when screwed in, grey, 32 A, Number of
GTIN (EAN)	4008190036409	poles: 2, Pitch in mm (P): 6.50, Insulated: No, Width: 1.5 mm
Qty.	50 ST	

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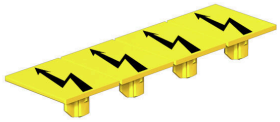
Accessories

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 SAK10	Version
Order No.	0178600000	Terminal cover, yellow, PVC, Height: 39.6 mm, Width: 25 mm, Depth:
GTIN (EAN)	4008190068288	1 mm, HB
Qty.	50 ST	

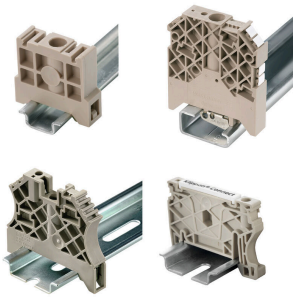
Mounting support

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	

End bracket



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	EW 35	Version
Order No.	0383560000	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C
GTIN (EAN)	4008190181314	
Qty.	50 ST	

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Accessories

Type	EWK 1	Version
Order No.	0206160000	End bracket, beige, TS 32, V-0, Wemid, Width: 9 mm, 100 °C
GTIN (EAN)	4008190080020	
Qty.	50 ST	

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 5/5 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 ST	

Blank

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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.	1000 ST	

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Accessories

Custom printing

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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 ST	

Blank

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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	
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 ST	

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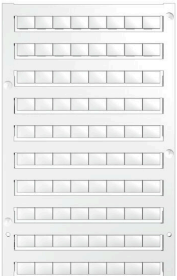
Accessories

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

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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 ST	

Plus

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.
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- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
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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 ST	

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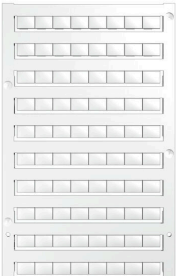
Accessories

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.
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- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
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General ordering data

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 ST	

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 ST	

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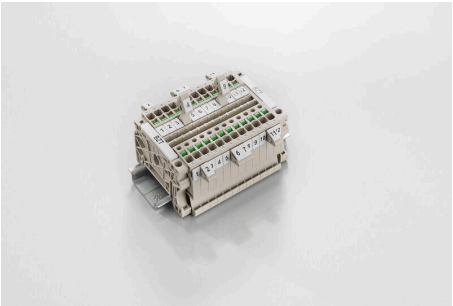
Accessories

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 ST	
Type	BZT 1 ZA WS 10/5	Version
Order No.	1805520000	Accessories, Marker holder
GTIN (EAN)	4032248270248	
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	STA 1/ZA SAK4-10	Version
Order No.	1632450000	Test adapter (terminal), 1.5 mm², 250 V, 0.2 A
GTIN (EAN)	4008190209636	
Qty.	25 ST	