

SAK 16 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, 16 mm ² , 76 A, 1000 V, Number of connections: 2, Number of levels: 1, TS 32, V-2, PA 66, 100 °C
Order No.	0271080000
Type	SAK 16 BL
GTIN (EAN)	4008190097578
Qty.	50 pc(s).

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Technical data

Dimensions and weights

Depth	57.5 mm	Depth (inches)	2.264 inch
Height	50 mm	Height (inches)	1.969 inch
Width	12 mm	Width (inches)	0.472 inch
Net weight	26.58 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)	690 V	Current (ATEX)	74.5 A
Wire cross section max. (ATEX)	16 mm ²	Max. voltage (IECEX)	690 V
Current (IECEX)	74.5 A	Wire cross section max. (IECEX)	16 mm ²
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 32	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)	87 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	4 AWG
Wire cross section min. (CSA)	14 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.

16 mm²

Connection type, additional connection

Screw connection

Conductors for clamping (rated connection)

Blade size 1.0 x 5.5 mm

Clamping range, min. 2.5 mm²Connection cross-section, stranded, max. 16 mm²

Connection direction on side

Number of connections 2

Tightening torque, max. 2.4 Nm

Twin wire-end ferrules, max. 10 mm²

Type of connection Screw connection

Wire connection cross section AWG, min. AWG 12

Wire connection cross section, finely stranded, min. 4 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. 4 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. 16 mm²Wire connection cross-section, solid core, min. 2.5 mm²Clamping range, max. 16 mm²

Clamping screw M 4

Connection cross-section, stranded, min. 4 mm²

Gauge to IEC 60947-1 B6

Stripping length 15 mm

Tightening torque, min. 2 Nm

Twin wire-end ferrules, min. 1.5 mm²

Wire connection cross section AWG, max. AWG 6

Wire connection cross section, finely stranded, max. 16 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. 16 mm²Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. 16 mm²Wire connection cross-section, solid core, max. 10 mm²

General

Rail TS 32

Wire connection cross section AWG, max. AWG 6

Standards IEC 60947-7-1

Wire connection cross section AWG, min. AWG 12

Rating data

Rated cross-section 16 mm²

Rated DC voltage 1,000 V

Current at maximum wires 76 A

Volume resistance according to IEC 60947-7-x 0.42 mΩ

Power loss in accordance with IEC 60947-7-x 2.43 W

Rated voltage 1,000 V

Rated current 76 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) 12 AWG

Conductor size Field wiring min. (UR) 12 AWG

Voltage size C (UR) 600 V

Conductor size Factory wiring max. (UR) 4 AWG

Conductor size Field wiring max. (UR) 4 AWG

Current size C (UR) 80 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
ECLASS 14.0	27-25-01-01		

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

Downloads

Approval/Certificate/Document of Conformity	Attestation Of Conformity CFAT SAK 16 UKCA Ex Attestation of Conformity CB Certificate CB Test Certificate Lloyds Register Certificate IECEX Certificate ATEX Certificate DNV Certificate Declaration of Conformity UKCA declaration of conformity
Engineering Data	CAD data – STEP
Product Change Notification	20210308 Technical Change SAK PA 32
User Documentation	StorageConditionsTerminalBlocks NTI SAK 16/32
Catalogues	Catalogues in PDF-format

SAK 16 BL**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**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 5/5 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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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).	

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).	

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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 2 SAK16	Version
Order No.	0457500000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 2, Pitch in mm (P): 6.00, Insulated: No, Width: 17.9 mm
GTIN (EAN)	4008190055349	
Qty.	50 pc(s).	
Type	Q 4 SAK16	Version
Order No.	0457700000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 4, Pitch in mm (P): 6.00, Insulated: No, Width: 41.7 mm
GTIN (EAN)	4008190070823	
Qty.	50 pc(s).	
Type	Q 3 SAK16	Version
Order No.	0457600000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 3, Pitch in mm (P): 6.00, Insulated: No, Width: 29.8 mm
GTIN (EAN)	4008190022280	
Qty.	50 pc(s).	
Type	Q 10 SAK16	Version
Order No.	0457800000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 10, Pitch in mm (P): 6.00, Insulated: No, Width: 131.1 mm
GTIN (EAN)	4008190082512	
Qty.	20 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 M3X25	Version
Order No.	0292500000	Mounting screw (Terminal), 3.00 mm, Steel, Depth: 4.8 mm, Width: 4.8 mm, Height: 25 mm
GTIN (EAN)	4008190177027	
Qty.	100 pc(s).	
Type	BFSC M3X22 PA/RT	Version
Order No.	0128900000	Mounting screw (Terminal), 3.00 mm, Polyamide 66, Depth: 4.8 mm, Width: 4.8 mm, Height: 22 mm
GTIN (EAN)	4008190084158	
Qty.	100 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 3 SAK16	Version
Order No.	0297800000	Terminal cover, yellow, PVC, Height: 36 mm, Width: 36 mm, Depth: 1
GTIN (EAN)	4008190080884	mm, V-2
Qty.	50 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 5/5 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).	

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www.weidmueller.com**Accessories****DEK 5/6****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 5/6 MM WS	Version
Order No.	2007120000	Dekafix, Terminal marker, 5 x 6 mm, Weidmueller, white
GTIN (EAN)	4050118392104	
Qty.	600 pc(s).	

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Accessories

Custom printing



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General ordering data

Type	DEK 5/6 MC SDR	Version
Order No.	1609830000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4008190456603	Weidmueller, To customer specification
Qty.	200 pc(s).	

Blank



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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 5/6 MC NE WS	Version
Order No.	1609820000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4008190203436	Weidmueller, white
Qty.	1,000 pc(s).	

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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 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).	

Blank

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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).	

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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.	0299600000	Test adapter (terminal), 230 V
GTIN (EAN)	4008190074043	
Qty.	20 pc(s).	

QL / SAK 16



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	QL 3 SAK16	Version
Order No.	0470800000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 3, Pitch in mm (P): 6.00, Insulated: No, Width: 29.8 mm
GTIN (EAN)	4008190011574	
Qty.	50 pc(s).	
Type	QL 2 SAK16	Version
Order No.	0470700000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 2, Pitch in mm (P): 6.00, Insulated: No, Width: 17.9 mm
GTIN (EAN)	4008190182618	
Qty.	50 pc(s).	
Type	QL 4 SAK16	Version
Order No.	0470900000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 4, Pitch in mm (P): 6.00, Insulated: No, Width: 41.7 mm
GTIN (EAN)	4008190112257	
Qty.	50 pc(s).	
Type	QL 10 SAK16	Version
Order No.	0471000000	Cross-connector (terminal), when screwed in, grey, 76 A, Number of poles: 10, Pitch in mm (P): 6.00, Insulated: No, Width: 113.1 mm
GTIN (EAN)	4008190150761	
Qty.	20 pc(s).	

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Accessories

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 SAK16	Version
Order No.	0271160000	End plate (terminals), beige, Height: 50 mm, Width: 1.5 mm, V-2, PA
GTIN (EAN)	4008190120429	66
Qty.	20 pc(s).	
Type	AP SAK35/TW SAK16	Version
Order No.	0303660000	End plate (terminals), beige, Height: 58 mm, Width: 1.5 mm, V-2, PA
GTIN (EAN)	4008190110765	66
Qty.	10 pc(s).	
Type	AP SAK35/TW SAK16 BL	Version
Order No.	0303680000	End plate (terminals), blue, Height: 58 mm, Width: 1.5 mm, V-2, PA 66
GTIN (EAN)	4008190025199	
Qty.	10 pc(s).	
Type	AP SAK16 BL	Version
Order No.	0271180000	End plate (terminals), blue, Height: 50 mm, Width: 1.5 mm, V-2,
GTIN (EAN)	4008190169800	Polyamide 66
Qty.	20 pc(s).	

SAK-Series

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).	

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Accessories

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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).	

Connection sleeves



General ordering data

Type	VH 19/5/3.4	Version
Order No.	0285100000	Connecting sleeve (terminal), when screwed in, Width: 5, Height: 5
GTIN (EAN)	4008190189297	mm, Depth: 17.5 mm, Number of poles: 1, Cu Zn
Qty.	50 pc(s).	
Type	VL 2 SAK16/SAKA	Version
Order No.	0135800000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of
GTIN (EAN)	4008190132088	poles: 2, Pitch in mm (P): 12.00, Insulated: No, Width: 8 mm
Qty.	50 pc(s).	