

**SAKG 46 II****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, Threaded stud connection, medium yellow, 150 mm <sup>2</sup> , 309 A, 1000 V, Number of connections: 2
Order No.	<a href="#">0170620000</a>
Type	SAKG 46 II
GTIN (EAN)	4008190170592
Qty.	5 items

## SAKG 46 II

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## Technical data

## Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (UR)	E60693
Certificate No. (cURusEX)	E184763

## Dimensions and weights

Depth	57 mm	Depth (inches)	2.2441 inch
Height	106 mm	Height (inches)	4.1732 inch
Width	46 mm	Width (inches)	1.811 inch
Net weight	307.65 g		

## Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	999cd67e-471e-4085-8dba-1342fcea86de

## Material data

Basic material	KrG	Colour	medium yellow
UL 94 flammability rating	V-0, 5VA		

## System specifications

Version	Stud terminal	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 32	N-function	No
PE function	No	PEN function	No

## Additional technical data

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

## CSA rating data

Wire cross section max. (CSA)	300 kcmil	Voltage size C (CSA)	600 V
Current size C (CSA)	365 A	Certificate No. (CSA)	12400-199

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## Technical data

### Conductors for clamping (additional connection)

Connection type, additional connection Threaded stud connection

### Conductors for clamping (rated connection)

Cable lug to DIN 46234	10...185 mm <sup>2</sup>	Cable lug to DIN 46235	25 - 150 mm <sup>2</sup>
Wire connection cross section AWG, max.	AWG 350 MCM	Connection direction	on side
Tightening torque, max.	31 Nm	Tightening torque, min.	14 Nm
Stripping length	28 mm	Type of connection	Threaded stud connection
Number of connections	2	Clamping range, max.	185 mm <sup>2</sup>
Clamping range, min.	10 mm <sup>2</sup>	Clamping screw	M 12
Wire connection cross section AWG, min.	AWG 8	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	10 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	10 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	185 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	10 mm <sup>2</sup>	Connection cross-section, stranded, max.	185 mm <sup>2</sup>
Connection cross-section, stranded, min. 10 mm <sup>2</sup>		Wire connection cross-section, solid core, max.	185 mm <sup>2</sup>
Wire connection cross-section, solid core, min.	10 mm <sup>2</sup>	Connection cross-section, finely stranded, min.	10 mm <sup>2</sup>

### General

Wire connection cross section AWG, max.	AWG 350 MCM	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 8	Standards	IEC 60947-7-1
Mounting rail	TS 32		

### Rating data

Rated cross-section	150 mm <sup>2</sup>	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal current	309 A
Current at maximum wires	353 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.1 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	9.89 W	Pollution severity	3

### UL rating data

Conductor size Factory wiring max. (UR)	300 kcmil	Current size C (UR)	285 A
Voltage size C (UR)	600 V	Conductor size Factory wiring min. (UR)	0000 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	0000 AWG
Conductor size Field wiring max. (UR)	300 kcmil		

### 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

## 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	QL 2 SAKG46	Version	
Order No.	<a href="#">0247000000</a>	Cross-connector (terminal), when screwed in, grey, 309 A, Number of	
GTIN (EAN)	4008190160210	poles: 2, Pitch in mm (P): 46.00, Insulated: No, Width: 78 mm	
Qty.	5 ST		

## 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	QL 3 SAKG46	Version	
Order No.	<a href="#">0444400000</a>	Cross-connector (terminal), when screwed in, grey, 309 A, Number of	
GTIN (EAN)	4008190159252	poles: 3, Pitch in mm (P): 46.00, Insulated: No, Width: 124 mm	
Qty.	5 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	QL 4 SAKG46	Version	
Order No.	<a href="#">0444500000</a>	Cross-connector, Number of poles: 4	
GTIN (EAN)	4008190187057		
Qty.	5 ST		

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## Accessories

## 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	TW SAKG46 HP/TF/GE/2	Version	
Order No.	<a href="#">0179900000</a>	Version	Partition plate (terminal), yellow, Height: 160 mm, Width: 2 mm, V-2, PA 66
GTIN (EAN)	4008190107833		
Qty.	10 ST		
Type	EP 2 SAKG46/32 HP/TF/GE	Version	
Order No.	<a href="#">0205400000</a>	Version	End and partition plate for terminals, yellow, Height: 160 mm, Width: 2 mm, V-2, PA 66
GTIN (EAN)	4008190027223		
Qty.	10 ST		

## Protection against contact



Our systems for touch protection ensure greater safety in your cabinet. They provide protection against electric shock caused by accidental contact with live parts due to operation or faults.

## General ordering data

Type	AH 46 SAKG46	Version	
Order No.	<a href="#">0326960000</a>	Version	Terminal cover, beige, PA 66, Height: 196 mm, Width: 46 mm, Depth: 78 mm, V-2
GTIN (EAN)	4008190174712		
Qty.	5 ST		

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## Accessories

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## 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.	<a href="#">1609801044</a>		Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111		Weidmueller, white
Qty.	1000 ST		

## Custom printing



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## General ordering data

Type	DEK 5/5 MC SDR	Version	
Order No.	<a href="#">1609810000</a>		Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190456597		Weidmueller, To customer specification
Qty.	200 ST		

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## General ordering data

Type	EP 2 SAKG46/35 HP/DBR	Version
Order No.	<a href="#">0180700000</a>	End and partition plate for terminals, dark brown, Height: 160 mm,
GTIN (EAN)	4008190099671	Width: 2 mm, V-2, PA 66
Qty.	10 ST	
Type	EP 2 SAKG46/35 HP/TF/GE	Version
Order No.	<a href="#">0180800000</a>	End and partition plate for terminals, yellow, Height: 160 mm, Width:
GTIN (EAN)	4008190006938	2 mm, V-2, PA 66
Qty.	10 ST	

## Blank



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## General ordering data

Type	DEK 5/5 MC NE BL	Version
Order No.	<a href="#">1609801693</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397166	Weidmueller, blue
Qty.	1000 ST	
Type	DEK 5/5 MC NE BR	Version
Order No.	<a href="#">1249870000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118051865	Weidmueller, brown
Qty.	1000 ST	
Type	DEK 5/5 MC NE GE	Version
Order No.	<a href="#">1609801687</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397135	Weidmueller, yellow
Qty.	1000 ST	

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## Accessories

Type	DEK 5/5 MC NE GN	Version
Order No.	<a href="#">1609801688</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397142	Weidmueller, green
Qty.	1000 ST	
Type	DEK 5/5 MC NE GR	Version
Order No.	<a href="#">1609801691</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397159	Weidmueller, grey
Qty.	1000 ST	
Type	DEK 5/5 MC NE OR	Version
Order No.	<a href="#">1238340000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118062632	Weidmueller, orange
Qty.	1000 ST	
Type	DEK 5/5 MC NE RT	Version
Order No.	<a href="#">1609801686</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397128	Weidmueller, red
Qty.	1000 ST	
Type	DEK 5/5 MC NE SW	Version
Order No.	<a href="#">1457550000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118263817	Weidmueller, black
Qty.	1000 ST	

## V0



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## General ordering data

Type	DEK 5/5 MC NE V0 WS	Version
Order No.	<a href="#">1388530000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118188622	Weidmueller, white
Qty.	1000 ST	

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## Accessories

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## Blank



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## General ordering data

Type	DEK 5/5 MC NE VI	Version
Order No.	<a href="#">1249860000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118042764	Weidmueller, violet
Qty.	1000 ST	

## Plus



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## General ordering data

Type	DEK 5/5 PLUS MC NE GE	Version
Order No.	<a href="#">1907520000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248532100	Weidmueller, yellow
Qty.	1000 ST	
Type	DEK 5/5 PLUS MC NE WS	Version
Order No.	<a href="#">1854490000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248393596	Weidmueller, white
Qty.	1000 ST	

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## Accessories

## Custom printing



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Type	DEK 5/5 PLUS MC SDR	Version	
Order No.	<a href="#">1854500000</a>		Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248393602		Weidmueller, To customer specification
Qty.	200 ST		

## Blank



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## General ordering data

Type	DEK 5/5 S MC NE WS	Version	
Order No.	<a href="#">1341620000</a>		Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118145793		Weidmueller, white
Qty.	400 ST		

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## Accessories

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## General ordering data

Type	DEK 5/5 S MC SDR	Version	
Order No.	<a href="#">1341590000</a>		Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4050118146042		Weidmueller, To customer specification
Qty.	80 ST		

## DEK 5/5



## 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 5/5 MM WS	Version	
Order No.	<a href="#">2007110000</a>		Dekafix, Terminal marker, 5 x 5 mm, Weidmueller, white
GTIN (EAN)	4050118391862		
Qty.	800 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 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 ST		
Type	BZT 1 ZA WS 10/5	Version	
Order No.	<a href="#">1805520000</a>	Accessories, Marker holder	
GTIN (EAN)	4032248270248		
Qty.	100 ST		

## DEK 5/8



## WS/ DEK

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- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
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## 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 ST		