

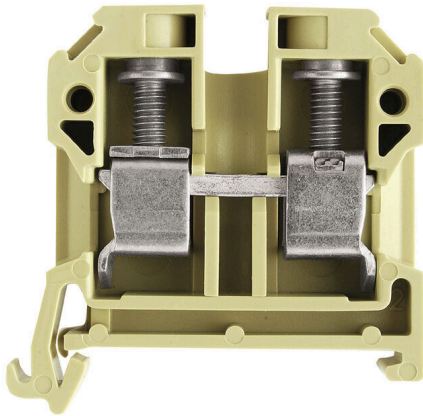
**SAK 10/35****Weidmüller Interface GmbH & Co. KG**

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 mm <sup>2</sup> , 57 A, 800 V, Number of connections: 2
Order No.	<a href="#">0443760000</a>
Type	SAK 10/35
GTIN (EAN)	4008190136949
Qty.	100 items
Alternative product	<a href="#">WDU 10</a>

## SAK 10/35

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## Technical data

### Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
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 mm <sup>2</sup>
Max. voltage (IECEX)	550 V	Current (IECEX)	57 A
Wire cross section max. (IECEX)	16 mm <sup>2</sup>	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

## SAK 10/35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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 mm <sup>2</sup>	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 mm <sup>2</sup>	Clamping range, min.	1.5 mm <sup>2</sup>
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 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	10 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	1.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	16 mm <sup>2</sup>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Twin wire-end ferrules, max.	6 mm <sup>2</sup>
Twin wire-end ferrules, min.	0.75 mm <sup>2</sup>	Torque level with DMS electric screwdriver	4
Wire connection cross-section, solid core, max.	10 mm <sup>2</sup>	Wire connection cross-section, solid core, min.	1.5 mm <sup>2</sup>
Connection cross-section, finely stranded, min.	1.5 mm <sup>2</sup>		

## 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 mm <sup>2</sup>	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

**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		

## SAK 10/35

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## 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.	<a href="#">0457100000</a>	Cross-connector (terminal), when screwed in, grey, 57 A, Number of poles: 2, Pitch in mm (P): 9.90, Insulated: No, Width: 16.9 mm
GTIN (EAN)	4008190103545	
Qty.	50 ST	
Type	Q 3 SAK10	Version
Order No.	<a href="#">0457200000</a>	Cross-connector (terminal), when screwed in, grey, 57 A, Number of poles: 3, Pitch in mm (P): 9.90, Insulated: No, Width: 26.8 mm
GTIN (EAN)	4008190135379	
Qty.	50 ST	
Type	Q 4 SAK10	Version
Order No.	<a href="#">0457300000</a>	Cross-connector (terminal), when screwed in, grey, 57 A, Number of poles: 4, Pitch in mm (P): 9.90, Insulated: No, Width: 36.7 mm
GTIN (EAN)	4008190129750	
Qty.	50 ST	
Type	Q 10 SAK10	Version
Order No.	<a href="#">0457400000</a>	Cross-connector (terminal), when screwed in, grey, 57 A, Number of poles: 10, Pitch in mm (P): 9.90, Insulated: No, Width: 96.1 mm
GTIN (EAN)	4008190016166	
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.	<a href="#">0117960000</a>	End plate for terminals, beige, Height: 40 mm, Width: 1.5 mm, V-2, PA 66, Snap-on: Yes
GTIN (EAN)	4008190081485	
Qty.	20 ST	
Type	AP SAK4-10 BL	Version
Order No.	<a href="#">0117980000</a>	End plate for terminals, blue, Height: 40 mm, Width: 1.5 mm, V-2, PA 66, Snap-on: Yes
GTIN (EAN)	4008190171087	
Qty.	20 ST	

## SAK 10/35

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## Accessories

Type	AP SAK4-10 DB	Version
Order No.	<a href="#">0105100000</a>	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.	<a href="#">0117900000</a>	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.	<a href="#">0130160000</a>	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.	<a href="#">0130180000</a>	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.	<a href="#">0197100000</a>	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.	<a href="#">0299600000</a>	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.

## SAK 10/35

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## Accessories

## General ordering data

Type	STB 14/D6/4/M3 SAK10	Version	
Order No.	<a href="#">0169900000</a>	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.	<a href="#">0292500000</a>	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



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	VH 19/5/3.4	Version	
Order No.	<a href="#">0285100000</a>	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.	<a href="#">0135900000</a>	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		

## SAK 10/35

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## 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 SAK 10	Version	
Order No.	<a href="#">0178600000</a>	Terminal cover, yellow, PVC, Height: 39.6 mm, Width: 25 mm, Depth:	
GTIN (EAN)	4008190068288	1 mm, HB	
Qty.	50 ST		

### Mounting support

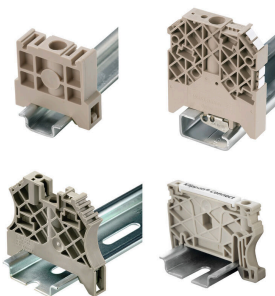


We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

### General ordering data

Type	BFSC M3X22 PA/RT	Version	
Order No.	<a href="#">0128900000</a>	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.	<a href="#">0383560000</a>	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C	
GTIN (EAN)	4008190181314		
Qty.	50 ST		

## SAK 10/35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Accessories

Type	EWK 1	Version
Order No.	<a href="#">0206160000</a>	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.

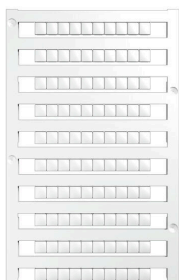
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- 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.	<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	

## 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	

SAK 10/35

Weidmüller Interface GmbH & Co. KG  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

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
- 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 SDR	Version
Order No.	<a href="#">1609850000</a>	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



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.	<a href="#">1609840000</a>	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.	<a href="#">1856740000</a>	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248400850	Weidmueller, white
Qty.	800 ST	

## SAK 10/35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

## Accessories

www.weidmueller.com

## 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 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 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.

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 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 ST		

## SAK 10/35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

## Accessories

www.weidmueller.com

## 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 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.	<a href="#">2007130000</a>		Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, white
GTIN (EAN)	4050118392012		
Qty.	500 ST		

## SAK 10/35

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

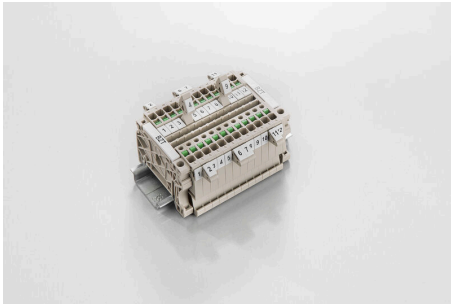
D-32758 Detmold

Germany

www.weidmueller.com

## 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		

## 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.	<a href="#">1632450000</a>	Test adapter (terminal), 1.5 mm <sup>2</sup> , 250 V, 0.2 A	
GTIN (EAN)	4008190209636		
Qty.	25 ST		