

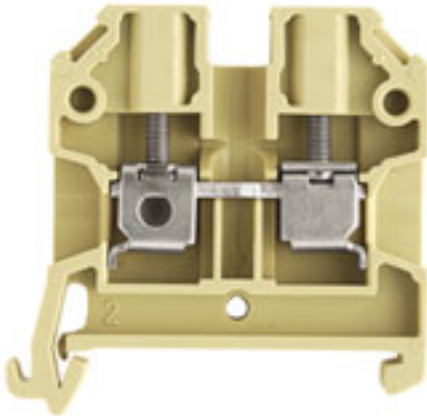
**SAK 4/35****Weidmüller Interface GmbH & Co. KG**

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, 4 mm <sup>2</sup> , 32 A, 800 V, Number of connections: 2, Number of levels: 1, TS 35, V-2, PA 66, 100 °C |
| Order No.           | <a href="#">0443660000</a>   |
| Type                | SAK 4/35   |
| GTIN (EAN)          | 4008190019990  |
| Qty.                | 100 pc(s).   |
| Alternative product | <a href="#">1020100000</a>   |

Creation date November 22, 2024 10:46:14 AM CET

Catalogue status 09.11.2024 / We reserve the right to make technical changes.

## SAK 4/35

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## Technical data

## Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 44 mm  | Depth (inches)  | 1.732 inch |
| Height     | 45 mm  | Height (inches) | 1.772 inch |
| Width      | 6.5 mm | Width (inches)  | 0.256 inch |
| Net weight | 8.6 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 | beige / yellow |
| UL 94 flammability rating | V-2   |        |                |

## Rating data IECEx/ATEX

|                                |                   |                             |   |
|--------------------------------|-------------------|-----------------------------|---|
| Certificate No. (ATEX)         | TUEV18ATEX8207U   | Certificate No. (IECEX)     | IECEXTUR18.0017U  |
| Max. voltage (ATEX)            | 550 V             | Current (ATEX)              | 32 A  |
| Wire cross section max. (ATEX) | 6 mm <sup>2</sup> | Max. voltage (IECEX)        | 550 V   |
| Current (IECEX)                |                   | Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                | 32 A              |                             |   |
| 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                    | No  |
| PE function                         | No  | PEN function                  | No  |

## Additional technical data

|                             |         |                     |                 |
|-----------------------------|---------|---------------------|-----------------|
| Explosion-tested version    | Yes     | Installation advice | Direct mounting |
| Number of similar terminals | 1       | Open sides          | right           |
| Type of mounting            | Snap-on |                     |                 |

## CSA rating data

|                               |           |                               |        |
|-------------------------------|-----------|-------------------------------|--------|
| Certificate No. (CSA)         | 12400-129 | Current size C (CSA)          | 36 A   |
| Voltage size C (CSA)          | 600 V     | Wire cross section max. (CSA) | 10 AWG |
| Wire cross section min. (CSA) | 26 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. | 4 mm <sup>2</sup> | Connection type, additional connection | Screw connection |
|---|-------------------|--|------------------|

## Conductors for clamping (rated connection)

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Blade size  | 0.6 x 3.5 mm         | Clamping range, max.  | 6 mm <sup>2</sup>   |
| Clamping range, min.  | 0.13 mm <sup>2</sup> | Clamping screw  | M 3                 |
| Connection cross-section, stranded, max.  | 4 mm <sup>2</sup>    | Connection cross-section, stranded, min.  | 0.5 mm <sup>2</sup> |
| Connection direction  | on side              | Gauge to IEC 60947-1  | A4                  |
| Number of connections   | 2                    | Stripping length  | 12 mm               |
| Tightening torque, max.   | 0.5 Nm               | Tightening torque, min.   | 0.5 Nm              |
| Twin wire-end ferrules, max.  | 2.5 mm <sup>2</sup>  | Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup> |
| Type of connection  | Screw connection     | Wire connection cross section AWG, min.   | AWG 26              |
| Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>    | Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 4 mm <sup>2</sup>    | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 4 mm <sup>2</sup>    | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, solid core, max.   | 6 mm <sup>2</sup>    | Wire connection cross-section, solid core, min.   | 0.5 mm <sup>2</sup> |

## General

|                     |                 |   |        |
|---------------------|-----------------|---|--------|
| Installation advice | Direct mounting | Rail                                    | TS 35  |
| Standards           | IEC 60947-7-1   | Wire connection cross section AWG, min. | AWG 26 |

## Rating data

|  |                   |                                 |               |
|--|-------------------|---------------------------------|---------------|
| Rated cross-section                          | 4 mm <sup>2</sup> | Rated voltage                   | 800 V         |
| Rated DC voltage                             | 800 V             | Rated current                   | 32 A          |
| Current at maximum wires                     | 41 A              | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1 mΩ              | Rated impulse withstand voltage | 8 kV          |
| Power loss in accordance with IEC 60947-7-x  | 1.02 W            | Pollution severity              | 3             |

## UL rating data

|   |        |   |        |
|---|--------|---|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 10 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR)   | 10 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG | Current size C (UR)                     | 30 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 |
| ECLASS 14.0 | 27-25-01-01 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Approvals

Approvals



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

## Downloads

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">CFAT SAK 4/35</a><br><a href="#">UKCA Ex Attestation of Conformity</a><br><a href="#">CB Certificate</a><br><a href="#">CB Test Certificate</a><br><a href="#">Lloyds Register Certificate</a><br><a href="#">IECEX Certificate</a><br><a href="#">ATEX Certificate</a><br><a href="#">DNV Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification                 | <a href="#">20210308 Technical Change SAK PA 35</a>  |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |

## SAK 4/35

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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.  | <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 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 5/6.5 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 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 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 ZA WS 10/5           | Version                    |
| Order No.  | <a href="#">1805520000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248              |                            |
| Qty.       | 100 pc(s).                 |                            |
| Type       | BZT 1 WS 10/5              | Version                    |
| Order No.  | <a href="#">1805490000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231              |                            |
| Qty.       | 100 pc(s).                 |                            |

## 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 4 SAK4                   | Version  |
| Order No.  | <a href="#">0336900000</a> | Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 4, Pitch in mm (P): 6.00, Insulated: No, Width: 24.5 mm  |
| GTIN (EAN) | 4008190036201              |  |
| Qty.       | 50 pc(s).                  |  |
| Type       | Q 3 SAK4                   | Version  |
| Order No.  | <a href="#">0336800000</a> | Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 3, Pitch in mm (P): 6.00, Insulated: No, Width: 18 mm    |
| GTIN (EAN) | 4008190089795              |  |
| Qty.       | 50 pc(s).                  |  |
| Type       | Q 10 SAK4                  | Version  |
| Order No.  | <a href="#">0368800000</a> | Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 10, Pitch in mm (P): 6.00, Insulated: No, Width: 63.5 mm |
| GTIN (EAN) | 4008190049478              |  |
| Qty.       | 20 pc(s).                  |  |
| Type       | Q 2 SAK4                   | Version  |
| Order No.  | <a href="#">0336700000</a> | Cross-connector (terminal), when screwed in, grey, 32 A, Number of poles: 2, Pitch in mm (P): 6.00, Insulated: No, Width: 11 mm    |
| GTIN (EAN) | 4008190033842              |  |
| Qty.       | 50 pc(s).                  |  |

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**Accessories**

**Connection sleeves**



**General ordering data**

|            |                            |  |
|------------|----------------------------|--|
| Type       | VH 19/5/3.4                | Version  |
| Order No.  | <a href="#">0285100000</a> | 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       | VH 13.5/4.9/3.3            | Version  |
| Order No.  | <a href="#">0248500000</a> | Connecting sleeve (terminal), when screwed in, Width: 4.9, Height: |
| GTIN (EAN) | 4008190022723              | 4.9 mm, Depth: 13.5 mm, Number of poles: 1, Copper                 |
| Qty.       | 100 pc(s).                 |  |
| Type       | VL 2 SAK4                  | Version  |
| Order No.  | <a href="#">0197000000</a> | Cross-connector (terminal), when screwed in, grey, 32 A, Number of |
| GTIN (EAN) | 4008190000271              | poles: 2, Pitch in mm (P): 6.50, Insulated: No, Width: 6 mm        |
| Qty.       | 50 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/D5/2.3/M3 SAK2.5    | Version            |
| Order No.  | <a href="#">0168600000</a> | SAK Series, Socket |
| GTIN (EAN) | 4008190135225              |                    |
| Qty.       | 50 pc(s).                  |                    |

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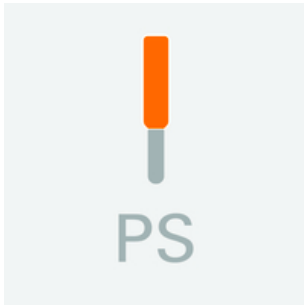
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## Accessories

## 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 2.3 RT                  | Version                               |
|------------|----------------------------|---------------------------------------|
| Order No.  | <a href="#">0180400000</a> | Test adapter (terminal), 230 V, 20 mA |
| GTIN (EAN) | 4008190060121              |                                       |
| Qty.       | 20 pc(s).                  |                                       |

## 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               | 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 pc(s).                  |   |
| Type       | TSCH 1                     | Version   |
| Order No.  | <a href="#">0319160000</a> | Small partition (terminal), PA 66, beige, Continuous operating temp.,   |
| GTIN (EAN) | 4008190097219              | max.: 100 °C  |
| Qty.       | 100 pc(s).                 |   |
| Type       | TSCH 2                     | Version   |
| Order No.  | <a href="#">0353660000</a> | Small partition (terminal), PA 66, beige, Continuous operating temp.,   |
| GTIN (EAN) | 4008190128432              | max.: 100 °C  |
| Qty.       | 100 pc(s).                 |   |
| 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, PA |
| GTIN (EAN) | 4008190114138              | 66  |
| Qty.       | 20 pc(s).                  |   |



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**Accessories**

**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.  | <a href="#">0292500000</a> | 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.  | <a href="#">0128900000</a> | 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).                 |   |

**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.  | <a href="#">0105100000</a> | End plate (terminals), dark beige, Height: 40 mm, Width: 1.5 mm, V-0, Wemid |
| GTIN (EAN) | 4008190394875              |   |
| Qty.       | 20 pc(s).                  |   |
| Type       | AP SAK4-10 BL              | Version   |
| Order No.  | <a href="#">0117980000</a> | End plate (terminals), blue, Height: 40 mm, Width: 1.5 mm, V-2, PA 66       |
| GTIN (EAN) | 4008190171087              |   |
| Qty.       | 20 pc(s).                  |   |
| Type       | AP SAK4-10                 | Version   |
| Order No.  | <a href="#">0117960000</a> | End plate (terminals), beige, Height: 40 mm, Width: 1.5 mm, V-2, PA 66      |
| GTIN (EAN) | 4008190081485              |   |
| Qty.       | 20 pc(s).                  |   |
| Type       | AP SAK4-10 RT              | Version   |
| Order No.  | <a href="#">0117900000</a> | End plate (terminals), red, Height: 40 mm, Width: 1.5 mm, V-2, PA 66        |
| GTIN (EAN) | 4008190125059              |   |
| Qty.       | 20 pc(s).                  |   |

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**Accessories**

**SAK-Series**

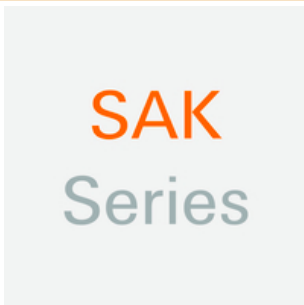


Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

**General ordering data**

|            |                            |  |
|------------|----------------------------|--|
| Type       | AD 4 SAK4                  | Version  |
| Order No.  | <a href="#">0285300000</a> | Terminal cover, yellow, PVC, Height: 25 mm, Width: 25.6 mm, Depth: |
| GTIN (EAN) | 4008190072902              | 1 mm, V-2  |
| Qty.       | 50 pc(s).                  |  |

**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.  | <a href="#">1632450000</a> | Test adapter (terminal), 250 V |
| GTIN (EAN) | 4008190209636              |                                |
| Qty.       | 25 pc(s).                  |                                |