

SAK 35N**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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, 35 mm ² , 800 V, 125 A, Number of connections: 2 |
| Order No. | 0550660000 |
| Type | SAK 35N |
| GTIN (EAN) | 4008190165925 |
| Qty. | 20 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 67.5 mm | Depth (inches) | 2.657 inch |
| Height | 58 mm | Height (inches) | 2.283 inch |
| Width | 16 mm | Width (inches) | 0.63 inch |
| Net weight | 51.35 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature | -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 | | |

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 | No |
| PE function | No | PEN function | No |

Additional technical data

| | | | |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | No | Number of similar terminals | 1 |
| Open sides | right | Type of mounting | Clamped |

CSA rating data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 154685-1501714 | Current size C (CSA) | 120 A |
| Voltage size C (CSA) | 600 V | Wire cross section max. (CSA) | 2 AWG |
| Wire cross section min. (CSA) | 12 AWG | | |

Conductors for clamping (additional connection)

| | | | |
|---|--------------------|--|------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 35 mm ² | Connection type, additional connection | Screw connection |
|---|--------------------|--|------------------|

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Conductors for clamping (rated connection)

| | | | |
|---|---------------------|---|---------------------|
| Blade size | 6.5 x 1.2 mm | Clamping range, max. | 50 mm ² |
| Clamping range, min. | 2.5 mm ² | Clamping screw | M 6 |
| Connection cross-section, stranded, max. | 50 mm ² | Connection cross-section, stranded, min. | 4 mm ² |
| Connection direction | on side | Gauge to IEC 60947-1 | B8 |
| Number of connections | 2 | Stripping length | 18 mm |
| Tightening torque, max. | 5 Nm | Tightening torque, min. | 4 Nm |
| Twin wire-end ferrules, max. | 16 mm ² | Twin wire-end ferrules, min. | 1.5 mm ² |
| Type of connection | Screw connection | Wire connection cross section AWG, max. | AWG 2 |
| Wire connection cross section AWG, min. | AWG 12 | Wire connection cross section, finely stranded, max. | 35 mm ² |
| Wire connection cross section, finely stranded, min. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 35 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 35 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 2.5 mm ² | Wire connection cross-section, solid core, max. | 16 mm ² |
| Wire connection cross-section, solid core, min. | 2.5 mm ² | | |

General

| | | | |
|---|-------|---|---------------|
| Rail | TS 32 | Standards | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 2 | Wire connection cross section AWG, min. | AWG 12 |

Rating data

| | | | |
|--|--------------------|---------------------------------|---------------|
| Rated cross-section | 35 mm ² | Rated voltage | 800 V |
| Rated DC voltage | 800 V | Rated current | 125 A |
| Current at maximum wires | 150 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.26 mΩ | Rated impulse withstand voltage | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 4 W | Pollution severity | 3 |

UL rating data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 2 AWG |
| Conductor size Factory wiring min. (UR) | 12 AWG | Conductor size Field wiring max. (UR) | 2 AWG |
| Conductor size Field wiring min. (UR) | 12 AWG | Current size C (UR) | 100 A |
| Voltage size C (UR) | 600 V | | |

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 |

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Technical data

Approvals

Approvals



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

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | DNVGL certificate Declaration of Conformity UKCA declaration of conformity |
| Engineering Data | CAD data – STEP |
| Product Change Notification | 20210308 Technical Change SAK PA 32 |
| Catalogues | Catalogues in PDF-format |

SAK 35N**Weidmüller Interface GmbH & Co. KG**

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www.weidmueller.com**Accessories****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. | 1046350000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |
| GTIN (EAN) | 4032248782055 | Weidmueller, white |
| Qty. | 800 pc(s). | |

Miscellaneous

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 | SS M4 D 128-A 4 | Version |
| Order No. | 0136400000 | Lock washer, Copper |
| GTIN (EAN) | 4008190118143 | |
| Qty. | 100 pc(s). | |

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Accessories

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. | 1,000 pc(s). | |

Custom 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 pc(s). | |

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Accessories

| | | |
|------------|----------------------------|---|
| 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). | |

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) |
| GTIN (EAN) | 4008190074043 | |
| Qty. | 20 pc(s). | |

Custom printing



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- Terminal markers, suitable for all Weidmüller cable connectors
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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). | |

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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). | |

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 M4X32 PA/NA | Version |
| Order No. | 0129100000 | Mounting screw (Terminal) |
| GTIN (EAN) | 4008190020842 | |
| Qty. | 100 pc(s). | |
| Type | BFSC M4X30 | Version |
| Order No. | 0267100000 | Mounting screw (Terminal) |
| GTIN (EAN) | 4008190187897 | |
| Qty. | 50 pc(s). | |

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www.weidmueller.com**Accessories****QL / SAK 35**

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 4 SAK35N | Version |
| Order No. | 0565100000 | Cross-connector (terminal), when screwed in, Number of poles: 4, |
| GTIN (EAN) | 4008190162139 | Pitch in mm (P): 8.00, Insulated: No, 99 A, grey |
| Qty. | 50 pc(s). | |
| Type | QL 10 SAK35N | Version |
| Order No. | 0565200000 | Cross-connector (terminal), when screwed in, Number of poles: 10, |
| GTIN (EAN) | 4008190174286 | Pitch in mm (P): 8.00, Insulated: No, 99 A, grey |
| Qty. | 20 pc(s). | |
| Type | QL 3 SAK35N | Version |
| Order No. | 0565000000 | Cross-connector (terminal), when screwed in, Number of poles: 3, |
| GTIN (EAN) | 4008190076597 | Pitch in mm (P): 8.00, Insulated: No, 99 A, grey |
| Qty. | 50 pc(s). | |
| Type | QL 2 SAK35N | Version |
| Order No. | 0564900000 | Cross-connector (terminal), when screwed in, Number of poles: 2, |
| GTIN (EAN) | 4008190099282 | Pitch in mm (P): 8.00, Insulated: No, 99 A, grey |
| Qty. | 50 pc(s). | |

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www.weidmueller.com**Accessories****Blank**

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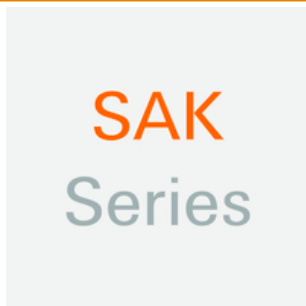
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- 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 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). | |

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 SAK35N | Version |
| Order No. | 0576700000 | Terminal cover, PVC, yellow, Height: 37 mm, Width: 63.6 mm, Depth: |
| GTIN (EAN) | 4008190119881 | 1 mm |
| Qty. | 50 pc(s). | |

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Accessories

Connection sleeves



General ordering data

| | | |
|------------|----------------------------|--|
| Type | VH 17/8.2/5.2 | Version |
| Order No. | 0267000000 | Connecting sleeve (terminal), Height: 8 mm, Width: 8 mm, Depth: 17 |
| GTIN (EAN) | 4008190146986 | mm, Cu Zn |
| Qty. | 50 pc(s). | |

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 5/5 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). | |

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. | 1805520000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248 | |
| Qty. | 100 pc(s). | |

| | | |
|------------|----------------------------|----------------------------|
| Type | BZT 1 WS 10/5 | Version |
| Order No. | 1805490000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231 | |
| Qty. | 100 pc(s). | |

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Accessories

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 | TW SAK35 | Version |
| Order No. | 0304360000 | Partition plate (terminal), Intermediate plate, 74 mm x 60 mm, beige |
| GTIN (EAN) | 4008190038885 | |
| Qty. | 20 pc(s). | |

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 SAK35/TW SAK16 BL | Version |
| Order No. | 0303680000 | End plate (terminals), 58 mm x 1.5 mm, blue |
| GTIN (EAN) | 4008190025199 | |
| Qty. | 10 pc(s). | |
| Type | AP SAK35/TW SAK16 | Version |
| Order No. | 0303660000 | End plate (terminals), 58 mm x 1.5 mm, beige |
| GTIN (EAN) | 4008190110765 | |
| Qty. | 10 pc(s). | |

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Accessories

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 16/D7/4/M4 SAK35 | Version |
| Order No. | 0140200000 | SAK Series, Socket |
| GTIN (EAN) | 4008190134884 | |
| Qty. | 50 pc(s). | |

Blank



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| | | |
|------------|----------------------------|---|
| 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). | |