

**SAKG 54/35 II****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Are you looking for an interface from electrical engineering to electronics? To be able to feed through to the electronic devices on the panel sometimes a solder connection or a standard pluggable solution is appropriate.

**General ordering data**

|            |                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------|
| Version    | SAK Series, Feed-through terminal, Rated cross-section: 240 mm <sup>2</sup> , Screw connection, medium yellow, Direct mounting |
| Order No.  | <a href="#">0638 120000</a>                                                                                                    |
| Type       | SAKG 54/35 II                                                                                                                  |
| GTIN (EAN) | 4008 190068646                                                                                                                 |
| Qty.       | 5 pc(s).                                                                                                                       |

## SAKG 54/35 II

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 60.5 mm | Depth (inches)  | 2.382 inch |
| Height     | 122 mm  | Height (inches) | 4.803 inch |
| Width      | 54 mm   | Width (inches)  | 2.126 inch |
| Net weight | 587.6 g |                 |            |

## Temperatures

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

## Material data

|                           |          |        |               |
|---------------------------|----------|--------|---------------|
| Material                  | KrG      | Colour | medium yellow |
| UL 94 flammability rating | V-0, 5VA |        |               |

## System specifications

|                               |               |                                     |       |
|-------------------------------|---------------|-------------------------------------|-------|
| Version                       | Stud terminal | End cover plate required            | Yes   |
| 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 |

## Additional technical data

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

## CSA rating data

|                               |           |                               |           |
|-------------------------------|-----------|-------------------------------|-----------|
| Certificate No. (CSA)         | 12400-199 | Current size C (CSA)          | 600 A     |
| Voltage size C (CSA)          | 600 V     | Wire cross section max. (CSA) | 500 kcmil |
| Wire cross section min. (CSA) | 300 kcmil |                               |           |

## Conductors for clamping (rated connection)

|                                         |                     |                                         |                    |
|-----------------------------------------|---------------------|-----------------------------------------|--------------------|
| Clamping range, max.                    | 240 mm <sup>2</sup> | Clamping range, min.                    | 10 mm <sup>2</sup> |
| Clamping screw                          | M 16                | Connection direction                    | on side            |
| Number of connections                   | 1                   | Tightening torque, max.                 | 60 Nm              |
| Tightening torque, min.                 | 25 Nm               | Type of connection                      | Screw connection   |
| Wire connection cross section AWG, max. | kcmil 500           | Wire connection cross section AWG, min. | kcmil 300          |

## General

|                                         |                 |                                         |           |
|-----------------------------------------|-----------------|-----------------------------------------|-----------|
| Installation advice                     | Direct mounting | Rail                                    | TS 35     |
| Standards                               | IEC 60947-7-1   | Wire connection cross section AWG, max. | kcmil 500 |
| Wire connection cross section AWG, min. | kcmil 300       |                                         |           |

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## Technical data

## Rating data

|                                              |                     |                                 |               |
|----------------------------------------------|---------------------|---------------------------------|---------------|
| Rated cross-section                          | 240 mm <sup>2</sup> | Rated voltage                   | 1,000 V       |
| Rated DC voltage                             | 1,000 V             | Rated current                   | 415 A         |
| Current at maximum wires                     | 415 A               | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.08 mΩ             | Rated impulse withstand voltage | 8 kV          |
| Power loss in accordance with IEC 60947-7-x  | 13.28 W             | Pollution severity              | 3             |

## UL rating data

|                                         |           |                                         |           |
|-----------------------------------------|-----------|-----------------------------------------|-----------|
| Certificate No. (UR)                    | E60693    | Conductor size Factory wiring max. (UR) | 500 kcmil |
| Conductor size Factory wiring min. (UR) | 300 kcmil | Conductor size Field wiring max. (UR)   | 500 kcmil |
| Conductor size Field wiring min. (UR)   | 300 kcmil | Current size C (UR)                     | 380 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 | 27250101    |

## Approvals

Approvals



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

## Downloads

|                                             |                                                                                             |
|---------------------------------------------|---------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                             |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>                                             |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                    |

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## 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 5/5 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 pc(s).                 |                                                           |
| 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 pc(s).                 |                                                           |
| 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 pc(s).                  |                                                           |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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 pc(s).                 |                                                        |

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## Accessories

## DEK 5/8



## WS/ DEK

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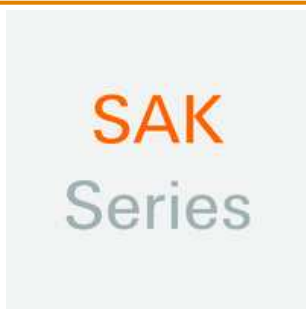
## Your benefits with MultiMark

- 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 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       | EP 2 SAKG46/32 HP/TF/GE    | Version                             |
| Order No.  | <a href="#">0205400000</a> | SAK Series, End plate, yellow, 2 mm |
| GTIN (EAN) | 4008190027223              |                                     |
| Qty.       | 10 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 WS 10/5              | Version                    |
| Order No.  | <a href="#">1805490000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231              |                            |
| Qty.       | 100 pc(s).                 |                            |
| Type       | BZT 1 ZA WS 10/5           | Version                    |
| Order No.  | <a href="#">1805520000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248              |                            |
| Qty.       | 100 pc(s).                 |                            |

## QL / SAKG

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 SAKG54                | Version                                                          |
| Order No.  | <a href="#">0247400000</a> | Cross-connector, Cross-connector, Number of poles: 4             |
| GTIN (EAN) | 4008190099251              |                                                                  |
| Qty.       | 5 pc(s).                   |                                                                  |
| Type       | QL 3 SAKG54                | Version                                                          |
| Order No.  | <a href="#">0408000000</a> | SAK Series, Cross-connector, Cross-connector, Number of poles: 3 |
| GTIN (EAN) | 4008190069711              |                                                                  |
| Qty.       | 5 pc(s).                   |                                                                  |

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## Accessories

## 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 SAKG46 HP/DBR/2         | Version                                       |
| Order No.  | <a href="#">0177100000</a> | SAK Series, Partition plate, dark brown, 2 mm |
| GTIN (EAN) | 4008190129699              |                                               |
| Qty.       | 10 pc(s).                  |                                               |
| Type       | TW SAKG46 HP/TF/GE/2       | Version                                       |
| Order No.  | <a href="#">0179900000</a> | SAK Series, Partition plate, yellow, 2 mm     |
| GTIN (EAN) | 4008190107833              |                                               |
| Qty.       | 10 pc(s).                  |                                               |

## Plus



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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 5/5 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 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.  | <a href="#">1609801044</a> | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111              | Weidmueller, white                                        |
| Qty.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |
| 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.       | 1,000 pc(s).               |                                                           |

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## Accessories

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

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