# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

## Product image



**Klippon® Connect with clamping yoke Technology**
The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easer and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

## General ordering data

| | |
|---|---|
| Type | EK 35 |
| Order No. | 0354760000 |
| Version | SAK Series, PE terminal, Rated cross-section: 35 mm², Screw connection, green / yellow, Direct mounting |
| GTIN (EAN) | 4008190187972 |
| Qty. | 20 pc(s). |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Width | 16 mm | Width (inches) | 0.63 inch |
| Height | 58 mm | Height (inches) | 2.283 inch |
| Depth | 67.5 mm | Depth (inches) | 2.657 inch |
| Weight | 99.35 g | Net weight | 95.05 g |

### Temperatures

| | | | |
|---|---|---|---|
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 100 °C |

### Material data

| | | | |
|---|---|---|---|
| Material | PA 66 | Colour | Yellow, Green |
| UL 94 flammability rating | V-2 | | |

### Rating data IECEx/ATEX

| | | | |
|---|---|---|---|
| Certificate No. (ATEX) | KEMA97ATEX1798U | Certificate No. (IECEX) | IECEXKEM06.0014U |
| Wire cross section max. (ATEX) | 35 mm² | Wire cross section max. (IECEX) | 35 mm² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | Ex eb II C Gb |
| Ex 2014/34/EU label | II 2 G D | | |

### System specifications

| | | | |
|---|---|---|---|
| Version | Screw connection, With PE connection, One end without connector | Tightening torque (mounting screw) | 0.8...1.6 Nm |
| Tightening torque (clamping screw for copper conductors) | 4 Nm | End cover plate required | No |
| Number of potentials | 1 | Number of levels | 1 |
| No. of clamping points per level | 2 | Number of potentials per tier | 1 |
| Levels cross-connected internally | No | PE connection | Yes |
| Mounting rail | TS 32 | N-function | No |
| PE function | Yes | PEN function | Yes |

### Additional technical data

| | | | |
|---|---|---|---|
| Explosion-tested version | Yes | Installation advice | Direct mounting |
| Number of similar terminals | 1 | Open sides | closed |
| Type of mounting | Screwed | | |

### CSA rating data

| | | | |
|---|---|---|---|
| Certificate No. (CSA) | 12400-127 | Current size C (CSA) | 145 A |
| Voltage size C (CSA) | 600 V | Wire cross section max. (CSA) | 2 AWG |
| Wire cross section min. (CSA) | 6 AWG | | |

### Conductors for clamping (additional connection)

| | |
|---|---|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 35 mm² |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

## Technical data

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Blade size | 6.5 x 1.0 mm | Clamping range, max. | 50 mm² |
| Clamping range, min. | 6 mm² | Clamping screw | M 6 |
| Connection cross-section, stranded, max. | 50 mm² | Connection cross-section, stranded, min. | 16 mm² |
| Connection direction | on side | Gauge to IEC 60947-1 | B9 |
| Number of connections | 2 | Stripping length | 20 mm |
| Tightening torque, max. | 4 Nm | Tightening torque, min. | 4 Nm |
| Type of connection | Screw connection | Wire connection cross section AWG, max. | AWG 2 |
| Wire connection cross section AWG, min. | AWG 8 | Wire connection cross section, finely stranded, max. | 35 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 35 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 10 mm² |
| Wire connection cross-section, finely stranded, min. | 10 mm² | Wire connection cross-section, solid core, max. | 16 mm² |
| Wire connection cross-section, solid core, min. | 6 mm² | | |

### PE rating data

| | | | |
|---|---|---|---|
| Rated short-time current | 4200 A (35 mm²) | Centre screw on PE terminals | M 3.5 |
| Tightening torque range for fixing screw | 0.8…1.6 Nm | PEN function | Yes |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 35 mm² | Rated voltage to adjoining terminal | 800 V |
| Standards | IEC 60947-7-2 | Volume resistance according to IEC 60947-7-x | 0.26 mΩ |
| Rated impulse withstand voltage to adjacent terminal | 8 kV | Pollution severity | 3 |

### UL rating data

| | | | |
|---|---|---|---|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 2 AWG |
| Conductor size Factory wiring min. (UR) | 6 AWG | Conductor size Field wiring max. (UR) | 2 AWG |
| Conductor size Field wiring min. (UR) | 6 AWG | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 3.0 | EC000901 | ETIM 4.0 | EC000491 |
| ETIM 5.0 | EC000491 | ETIM 6.0 | EC000901 |
| UNSPSC | 30-21-18-11 | eClass 5.1 | 27-14-03-05 |
| eClass 6.2 | 27-14-03-05 | eClass 7.1 | 27-14-03-05 |
| eClass 8.1 | 27-14-11-41 | eClass 9.0 | 27-14-11-41 |
| eClass 9.1 | 27-14-11-41 | | |

### Product information

| | |
|---|---|
| Instructions for accessories | On connection of the 50 mm² conductor, TS 35/15 Cu must be used. |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

## Technical data

### Approvals

| | |
|---|---|
| Approvals |  |
| ROHS | Conform |



### Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Attestation Of Conformity<br>ATEX Certificate<br>IECEx Certificate<br>DE_PT1332_20160418_175_ISSUE01.pdf |
| Engineering Data | EPLAN, WSCAD |
| Engineering Data | STEP |
| User Documentation | Cross Connection Guide |

### Safety note

| | |
|---|---|
| Safety notice | Safety Information |

**SAK Series**
**EK 35**

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/6 MC SDR | 1609830000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, To customer specification | 4008190456603 | 200 pc(s). |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/8 PLUS MC NE WS | 1046350000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White | 4032248782055 | 800 pc(s). |

### Railholder



**Shielding and earthing**
Our protective earth conductor and shielding terminals featuring different connection technologies allow you to effectively protect both people and equipment from interference, such as electrical or magnetic fields. A comprehensive range of accessories rounds off our range.

#### General ordering data

| Type | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| SH 2 | 0494920000 | Accessories, Rail support, KrG | 4008190007584 | 10 pc(s). |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/5 MC SDR | 1609810000 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, To customer specification | 4008190456597 | 200 pc(s). |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

## Accessories

### DEK 5/8



**WS/ DEK**
MultiMark DEK/WS connector 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**

- Compatible with Weidmüller molular terminal blocks
- 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 levels of flexibility thanks to manufacturer-independence

### General ordering data

| Type | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/8 MM WS | 2007130000 | Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, White | 4050118392012 | 500 pc(s). |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/8 MC SDR | 1856750000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification | 4032248400867 | 160 pc(s). |
| DEK 5/8 PLUS MC SDR | 1046370000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, To customer specification | 4032248782079 | 160 pc(s). |

# SAK Series
# EK 35

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

## 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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/5 MC NE WS | 1609801044 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, White | 4008190397111 | 1,000 pc(s). |

### 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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/8 MC NE WS | 1856740000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White | 4032248400850 | 800 pc(s). |

Weidmüller

**SAK Series**
**EK 35**

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

# 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 | Order No. | Version | GTIN (EAN) | Qty. |
|---|---|---|---|---|
| DEK 5/6 MC NE WS | 1609820000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, White | 4008190203436 | 1,000 pc(s). |