

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

Klingenbergstraße 16

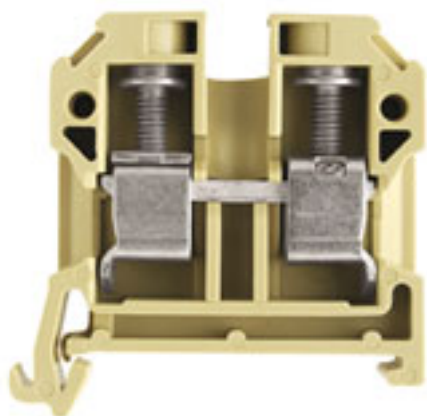
D-32758 Detmold

Germany

Fon: +49 5231 14-0

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www.weidmueller.com



The Weidmüller SAK feed-through terminals satisfy the requirements of IEC 60947-1 and are available with rated cross-sections from 0.08 mm<sup>2</sup> to 240 mm<sup>2</sup>.

**General ordering data**

|            |                            |
|------------|----------------------------|
| Type       | SAK 10/35                  |
| Order No.  | <a href="#">0443760000</a> |
| GTIN (EAN) | 4008190136949              |
| Qty.       | 100 pc(s).                 |

## SAK Series

### SAK 10/35

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## Technical data

### Dimensions and weights

|            |         |                          |         |
|------------|---------|--------------------------|---------|
| Length     | 45 mm   | Width                    | 10 mm   |
| Height     | 51.5 mm | Height of lowest version | 51.5 mm |
| Net weight | 18.09 g |                          |         |

### Temperatures

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

### Rated data IECEx/ATEX

|                                 |                                                                                                   |                                |                          |
|---------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|
| Certificate No. (ATEX)          | KEMA97ATEX1798U                                                                                   | ATEX certificate               | IECExKEM06.0014U         |
| ATEX certificate                | KEMA97ATEX1798U_e.pdf                                                                             | Certificate No. (IECEx)        | IECExKEM06.0014U         |
| IEC Ex certificate              | IECExKEM06.0014U_e.pdf                                                                            | Max. voltage (ATEX)            | 550 V                    |
| Current (ATEX)                  | 50 A                                                                                              | Wire cross section max. (ATEX) | 10 mm <sup>2</sup>       |
| Max. voltage (IECEx)            | 550 V                                                                                             | Current (IECEx)                | 50 A                     |
| Wire cross section max. (IECEx) | 10 mm <sup>2</sup>                                                                                | Voltage, cross-connection      | CrossConnectionGuide.pdf |
| Operating temperature range     | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7             |                          |
| Marking ATEX Directive 94/9/EC  | II 2 G D                                                                                          |                                | Ex e II                  |

### Additional technical data

|                          |                                                                             |                             |         |
|--------------------------|-----------------------------------------------------------------------------|-----------------------------|---------|
| Explosion-tested version | No                                                                          | Number of similar terminals | 1       |
| Open sides               | right                                                                       | Type of mounting            | Snap-on |
| Version                  | Screw connection, for screwable cross-connection, One end without connector |                             |         |

### CSA ratings data

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 154685-1501714 | Voltage size C (CSA)          | 600 V |
| Current size C (CSA)          | 65 A           | Wire cross section max. (CSA) | 6 AWG |
| Wire cross section min. (CSA) | 14 AWG         |                               |       |

### Clampable wires (additional connection)

|                                                                                             |                     |                                                                                             |                    |
|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|--------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 1.5 mm <sup>2</sup> | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 10 mm <sup>2</sup> |
|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|--------------------|

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**Technical data**
**Clampable wires (rated connection)**

|                                                                                                                                       |                      |                                                                                                                               |                     |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Type of connection                                                                                                                    | Screw connection     | Stripping length                                                                                                              | 12 mm               |
| Blade size                                                                                                                            | 1.0 x 5.5 mm         | Connection direction                                                                                                          | on side             |
| Number of connections                                                                                                                 | 2                    | Clamping range, rated connection, min.                                                                                        | 1.5 mm <sup>2</sup> |
| Clamping range, rated connection, max.                                                                                                | 16 mm <sup>2</sup>   | Clamping screw                                                                                                                | M 4                 |
| Tightening torque, min.                                                                                                               | 2 Nm                 | Tightening torque, max.                                                                                                       | 2.4 Nm              |
| Torque level with DMS electric screwdriver                                                                                            | 4                    | Gauge to IEC 60947-1                                                                                                          | B6                  |
| Wire connection cross section, solid core, max. rated connection                                                                      | 1.5 mm <sup>2</sup>  | Wire connection cross section, solid core max. rated connection                                                               | 10 mm <sup>2</sup>  |
| Wire connection cross section, stranded, rated connection, min.                                                                       | 1.5 mm <sup>2</sup>  | Wire connection cross section, stranded, rated connection, max.                                                               | 16 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> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                             | 1.5 mm <sup>2</sup>  | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                     | 10 mm <sup>2</sup>  |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 1.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 10 mm <sup>2</sup>  |
| Twin wire-end ferrules, min.                                                                                                          | 0.75 mm <sup>2</sup> | Twin wire-end ferrules, max.                                                                                                  | 6 mm <sup>2</sup>   |
| Wire connection cross section AWG, min.                                                                                               | AWG 14               | Wire connection cross section AWG, max.                                                                                       | AWG 6               |

**Rated data**

|                                 |                    |               |               |
|---------------------------------|--------------------|---------------|---------------|
| Rated cross-section             | 10 mm <sup>2</sup> | Rated voltage | 800 V         |
| Rated impulse withstand voltage | 8 kV               | Rated current | 57 A          |
| Current at maximum wires        | 76 A               | Standards     | IEC 60947-7-1 |
| Pollution severity              | 3                  |               |               |

**UL ratings data**

|                                         |                 |                                         |       |
|-----------------------------------------|-----------------|-----------------------------------------|-------|
| Certificate No. (UR)                    | E60693VOL1SEC14 | Voltage size C (UR)                     | 600 V |
| Current size C (UR)                     | 60 A            | Conductor size Factory wiring max. (UR) | 6 AWG |
| Conductor size Factory wiring min. (UR) | 14 AWG          | Conductor size Field wiring max. (UR)   | 6 AWG |

**Material data**

|                     |       |                           |       |
|---------------------|-------|---------------------------|-------|
| Insulating material | PA 66 | Material                  | PA 66 |
| Colour              | Beige | UL 94 flammability rating | V-2   |

**System specifications**

|                                   |            |                                  |                  |
|-----------------------------------|------------|----------------------------------|------------------|
| Product family                    | SAK Series | Type of connection               | Screw connection |
| Connection direction              | on side    | Number of levels                 | 1                |
| Number of connections             | 2          | No. of clamping points per level | 2                |
| Levels cross-connected internally | No         | Mounting rail                    | TS 35            |
| End cover plate required          | Yes        |                                  |                  |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 2.0   | EC000897    | ETIM 3.0   | EC000897    |
| UNSPSC     | 30-21-18-11 | eClass 4.1 | 27-14-11-20 |
| eClass 5.1 | 27-14-11-20 | eClass 6.2 | 27-14-11-20 |
| eClass 7.1 | 27-14-11-20 |            |             |

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**Technical data****Product information**

|                                |                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------|
| Descriptive text ordering data | A higher torque of 2 to 2.4 Nm is necessary when using H07V-R16 and AWG 6 conductors. |
|--------------------------------|---------------------------------------------------------------------------------------|

|                                 |                                                                         |
|---------------------------------|-------------------------------------------------------------------------|
| Descriptive text technical data | When used with twin ferrules ZH 0.5 - ZH 4, the rated voltage is 690 V. |
|---------------------------------|-------------------------------------------------------------------------|

**Approvals**

Approvals



ROHS

Conform