

**SAK Series**  
**SAK 2.5/10****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com

**Klippon® Connect with clamping yoke Technology**

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

**General ordering data**

|            |                                                                                                                        |
|------------|------------------------------------------------------------------------------------------------------------------------|
| Type       | SAK 2.5/10                                                                                                             |
| Order No.  | <a href="#">0322860000</a>                                                                                             |
| Version    | SAK Series, Feed-through terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Screw connection, Beige, Direct mounting |
| GTIN (EAN) | 4008190050252                                                                                                          |
| Qty.       | 10 pc(s).                                                                                                              |

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**Technical data**
**Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 6 mm    | Width (inches)  | 0.236 inch |
| Height     | 36.5 mm | Height (inches) | 1.437 inch |
| Depth      | 46.5 mm | Depth (inches)  | 1.831 inch |
| Net weight | 69.5 g  |                 |            |

**Temperatures**

|                                  |        |                                  |        |
|----------------------------------|--------|----------------------------------|--------|
| 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)          | 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)                  | 21 A                                                                                              | Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>      |
| Max. voltage (IECEX)            | 550 V                                                                                             | Current (IECEX)                | 21 A                     |
| Wire cross section max. (IECEX) | 2.5 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             |                          |
| Ex 2014/34/EU label             | II 2 G D                                                                                          |                                | Ex e II                  |

**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   |
| No. of clamping points per level  | 2                                                                           | Number of potentials per tier | 1   |
| Levels cross-connected internally | No                                                                          | PE connection                 | No  |
| Mounting rail                     | TS 32                                                                       | N-function                    | No  |
| PE function                       | No                                                                          | PEN function                  | No  |

**Additional technical data**

|                             |         |                     |                 |
|-----------------------------|---------|---------------------|-----------------|
| Explosion-tested version    | Yes     | Installation advice | Direct mounting |
| Number of similar terminals | 10      | Open sides          | right           |
| Type of mounting            | Snap-on |                     |                 |

**CSA rating data**

|                               |           |                               |        |
|-------------------------------|-----------|-------------------------------|--------|
| Certificate No. (CSA)         | 12400-129 | Current size C (CSA)          | 25 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>

### Conductors for clamping (rated connection)

|                                                                                                                               |                      |                                                                                                                                       |                     |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Blade size                                                                                                                    | 0.6 x 3.5 mm         | Clamping range, rated connection, max.                                                                                                | 6 mm <sup>2</sup>   |
| Clamping range, rated connection, min.                                                                                        | 0.13 mm <sup>2</sup> | Clamping screw                                                                                                                        | M 2.5               |
| Connection direction                                                                                                          | on side              | Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm <sup>2</sup> |
| Gauge to IEC 60947-1                                                                                                          | A3                   | Number of connections                                                                                                                 | 2                   |
| Stripping length                                                                                                              | 10 mm                | Tightening torque, max.                                                                                                               | 0.6 Nm              |
| Tightening torque, min.                                                                                                       | 0.4 Nm               | Torque level with DMS electric screwdriver                                                                                            | 1                   |
| Twin wire-end ferrules, max.                                                                                                  | 1.5 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, max.                                                                                               | AWG 10              |
| Wire connection cross section AWG, min.                                                                                       | AWG 26               | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                             | 4 mm <sup>2</sup>   |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                     | 0.5 mm <sup>2</sup>  | Wire connection cross section, finely stranded, max.                                                                                  | 4 mm <sup>2</sup>   |
| Wire connection cross section, solid core max. rated connection                                                               | 6 mm <sup>2</sup>    | Wire connection cross section, solid core, min. rated connection                                                                      | 0.5 mm <sup>2</sup> |
| Wire connection cross section, stranded, rated connection, max.                                                               | 4 mm <sup>2</sup>    | Wire connection cross section, stranded, rated connection, min.                                                                       | 0.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 4 mm <sup>2</sup>    | Wire connection cross-section, finely stranded, min.                                                                                  | 0.5 mm <sup>2</sup> |

### Rating data

|                                 |                     |                                              |         |
|---------------------------------|---------------------|----------------------------------------------|---------|
| Rated cross-section             | 2.5 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated current                   | 24 A                | Current at maximum wires                     | 41 A    |
| Standards                       | IEC 60947-7-1       | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Rated impulse withstand voltage | 8 kV                | Pollution severity                           | 3       |

### UL rating data

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG | Current size C (UR)                     | 20 A   |
| Voltage size C (UR)                     | 600 V  |                                         |        |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000897    | ETIM 4.0   | EC000897    |
| ETIM 5.0   | EC000897    | ETIM 6.0   | EC000897    |
| UNSPSC     | 30-21-18-11 | eClass 5.1 | 27-14-11-20 |
| eClass 6.2 | 27-14-11-20 | eClass 7.1 | 27-14-11-20 |
| eClass 8.1 | 27-14-11-20 | eClass 9.0 | 27-14-11-20 |
| eClass 9.1 | 27-14-11-20 |            |             |

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## Technical data

### Product information

Descriptive text technical data With twin ferrules ZH 0.5 to ZH 1.5, rated voltage is 690 V.

### Approvals

Approvals



ROHS Conform

### Downloads

|                                             |                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CFAT_SAK 2.5.pdf</a><br><a href="#">DE_PT1331_20160418_363_ISSUE01.pdf</a> |
| Engineering Data                            | <a href="#">EPLAN_WSCAD</a>                                                            |

### Safety note

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|