The Weidmüller SAK feed-through terminals satisfy the requirements of IEC 60947-1 and are available with rated cross-sections from 0.08 mm² to 240 mm².

### General ordering data

<table>
<thead>
<tr>
<th>Order No.</th>
<th>0218660000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>SAK 2.5/EN</td>
</tr>
<tr>
<td>Version</td>
<td>SAK Series, Feed-through terminal, Rated cross-section: 2.5 mm², Screw connection</td>
</tr>
<tr>
<td>GTIN (EAN)</td>
<td>4008190010171</td>
</tr>
<tr>
<td>Qty.</td>
<td>100 pc(s).</td>
</tr>
</tbody>
</table>
Data sheet...

SAK Series
SAK 2.5/EN

Technical data

Dimensions and weights

<table>
<thead>
<tr>
<th>Length</th>
<th>44.5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>42.5 mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>7.2 g</td>
</tr>
<tr>
<td>Width</td>
<td>6.1 mm</td>
</tr>
<tr>
<td>Height of lowest version</td>
<td>42.5 mm</td>
</tr>
</tbody>
</table>

Temperatures

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>Storage temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous operating temp., min.</td>
<td>-50 °C</td>
</tr>
<tr>
<td>Continuous operating temp., max.</td>
<td>100 °C</td>
</tr>
</tbody>
</table>

Rated data IECEx/ATEX

<table>
<thead>
<tr>
<th>Certificate No. (ATEX)</th>
<th>KEMA97ATEX1798U</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEX certificate</td>
<td>KEMA97ATEX1798U.e.pdf</td>
</tr>
<tr>
<td>IEC Ex certificate</td>
<td>IECExKEM06.0014U.e.pdf</td>
</tr>
<tr>
<td>Current (ATEX)</td>
<td>21 A</td>
</tr>
<tr>
<td>Max. voltage (IECEX)</td>
<td>690 V</td>
</tr>
<tr>
<td>Wire cross section max. (IECEX)</td>
<td>2.5 mm²</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity</td>
</tr>
<tr>
<td>Voltage, cross-connection</td>
<td>CrossConnectionGuide.pdf</td>
</tr>
<tr>
<td>Marking ATEX Directive 94/9/EC</td>
<td>II 2 G D</td>
</tr>
<tr>
<td>Marking IECEX Directive</td>
<td>Ex e II</td>
</tr>
</tbody>
</table>

Additional technical data

<table>
<thead>
<tr>
<th>Explosion-tested version</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open sides</td>
<td>right</td>
</tr>
<tr>
<td>Version</td>
<td>Double terminal</td>
</tr>
</tbody>
</table>

CSA ratings data

<table>
<thead>
<tr>
<th>Certificate No. (CSA)</th>
<th>12400-129</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current size C (CSA)</td>
<td>25 A</td>
</tr>
<tr>
<td>Wire cross section min. (CSA)</td>
<td>26 AWG</td>
</tr>
<tr>
<td>Voltage size C (CSA)</td>
<td>600 V</td>
</tr>
<tr>
<td>Wire cross section max. (CSA)</td>
<td>10 AWG</td>
</tr>
</tbody>
</table>

Clampable wires (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 0.5 mm² |
Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 4 mm² |

Creation date November 30, 2012 5:14:16 PM CET

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### Technical data

#### Clampable wires (rated connection)

<table>
<thead>
<tr>
<th>Type of connection</th>
<th>Screw connection</th>
<th>Stripping length</th>
<th>10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade size</td>
<td>0.6 x 3.5 mm</td>
<td>Connection direction</td>
<td>on side</td>
</tr>
<tr>
<td>Number of connections</td>
<td>2</td>
<td>Clamping range, rated connection, min.</td>
<td>0.13 mm²</td>
</tr>
<tr>
<td>Torque level with DMS electric screwdriver</td>
<td>1</td>
<td>Clamping screw</td>
<td>M 2.5</td>
</tr>
<tr>
<td>Clamping range, rated connection, max.</td>
<td>6 mm²</td>
<td>Tightening torque, max.</td>
<td>0.6 Nm</td>
</tr>
<tr>
<td>Torque level with DMS electric screwdriver</td>
<td>1</td>
<td>Gauge to IEC 60947-1</td>
<td>A3</td>
</tr>
<tr>
<td>Tightening torque, min.</td>
<td>0.4 Nm</td>
<td>Wire connection cross section, solid core, max. rated connection</td>
<td>6 mm²</td>
</tr>
<tr>
<td>Blade size</td>
<td>0.6 x 3.5 mm</td>
<td>Wire connection cross section, stranded, rated connection, min.</td>
<td>4 mm²</td>
</tr>
<tr>
<td>Wire connection cross section, finely stranded, max.</td>
<td>4 mm²</td>
<td>Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.</td>
<td>4 mm²</td>
</tr>
<tr>
<td>Wire connection cross section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.</td>
<td>0.5 mm²</td>
<td>Wire connection cross section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.</td>
<td>4 mm²</td>
</tr>
<tr>
<td>Twin wire-end ferrules, min.</td>
<td>0.5 mm²</td>
<td>Twin wire-end ferrules, max.</td>
<td>1.5 mm²</td>
</tr>
<tr>
<td>Wire connection cross section AWG, min.</td>
<td>AWG 26</td>
<td>Wire connection cross section AWG, max.</td>
<td>AWG 12</td>
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</tbody>
</table>

#### Rated data

<table>
<thead>
<tr>
<th>Rated cross-section</th>
<th>2.5 mm²</th>
<th>Rated voltage</th>
<th>800 V</th>
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</thead>
<tbody>
<tr>
<td>Rated impulse withstand voltage</td>
<td>8 kV</td>
<td>Rated current</td>
<td>24 A</td>
</tr>
<tr>
<td>Current at maximum wires</td>
<td>41 A</td>
<td>Standards</td>
<td>IEC 60947-7-1</td>
</tr>
<tr>
<td>Pollution severity</td>
<td>3</td>
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#### UL ratings data

<table>
<thead>
<tr>
<th>Certificate No. (UR)</th>
<th>E60693VOL1SEC14</th>
<th>Voltage size C (UR)</th>
<th>600 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current size C (UR)</td>
<td>20 A</td>
<td>Conductor size Factory wiring max. (UR)</td>
<td>12 AWG</td>
</tr>
<tr>
<td>Conductor size Factory wiring min. (UR)</td>
<td>22 AWG</td>
<td>Conductor size Field wiring max. (UR)</td>
<td>12 AWG</td>
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</tbody>
</table>

#### Material data

<table>
<thead>
<tr>
<th>Material</th>
<th>PA 66</th>
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<tbody>
<tr>
<td>Colour</td>
<td>Beige</td>
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</table>

#### System specifications

<table>
<thead>
<tr>
<th>Product family</th>
<th>SAK Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of connection</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Connection direction</td>
<td>on side</td>
</tr>
<tr>
<td>Number of levels</td>
<td>1</td>
</tr>
<tr>
<td>Number of connections</td>
<td>2</td>
</tr>
<tr>
<td>No. of clamping points per level</td>
<td>2</td>
</tr>
<tr>
<td>Levels cross-connected internally</td>
<td>No</td>
</tr>
<tr>
<td>Mounting rail</td>
<td>TS 35, TS 32</td>
</tr>
<tr>
<td>End cover plate required</td>
<td>Yes</td>
</tr>
</tbody>
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#### Classifications

<table>
<thead>
<tr>
<th>ETIM 2.0</th>
<th>EC000897</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNSPSC</td>
<td>30-21-18-11</td>
</tr>
<tr>
<td>eClass 5.1</td>
<td>27-14-11-20</td>
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<tr>
<td>eClass 7.0</td>
<td>27-14-11-20</td>
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<tr>
<td>ETIM 3.0</td>
<td>EC000897</td>
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<tr>
<td>eClass 4.1</td>
<td>27-14-11-20</td>
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<tr>
<td>eClass 6.0</td>
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Creation date November 30, 2012 5:14:16 PM CET

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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

<table>
<thead>
<tr>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
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