

SAK 2.5/TC FE

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



Thermocouple Terminal blocks are specially designed for the transmission of very small voltages in temperature measuring circuits. Special current bars ensure that no false signals are transmitted within the terminal block when temperature differences between the positive and negative paths exist. This high measuring precision is required, for example, in aircraft engine test rigs, complicated chemical processes and controllers.

General ordering data

| | |
|---------------------|---|
| Version | Thermocouple terminal, Screw connection, beige / yellow, 2.5 mm ² , Number of connections: 2, Number of levels: 1, TS 32, V-2, PA 66 |
| Order No. | 0190060000 |
| Type | SAK 2.5/TC FE |
| GTIN (EAN) | 4008 190090678 |
| Qty. | 25 pc(s). |
| Alternative product | 1024300000 |

Creation date November 7, 2024 7:45:28 AM CET

Catalogue status 26.10.2024 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 46.5 mm | Depth (inches) | 1.831 inch |
| Height | 36.5 mm | Height (inches) | 1.437 inch |
| Width | 6 mm | Width (inches) | 0.236 inch |
| Net weight | 8.43 g | | |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature | -25 °C...55 °C | 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 | | |

System specifications

| | | | |
|-------------------------------------|---|-------------------------------|-----|
| Version | Screw connection, Thermocouple, One end without connector | End cover plate required | Yes |
| Number of potentials | 1 | 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 32 | N-function | No |
| PE function | No | PEN function | No |

Additional technical data

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

Conductors for clamping (additional connection)

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

Conductors for clamping (rated connection)

| | | | |
|--|---------------------|--|---------------------|
| Blade size | 0.6 x 3.5 mm | Clamping range, max. | 2.5 mm ² |
| Clamping screw | M 2.5 | Connection cross-section, stranded, max. | 4 mm ² |
| Connection cross-section, stranded, min. | 0.5 mm ² | Connection direction | on side |
| Number of connections | 2 | Stripping length | 10 mm |
| Tightening torque, max. | 0.6 Nm | Tightening torque, min. | 0.4 Nm |
| Type of connection | Screw connection | Wire connection cross section, finely stranded, max. | 4 mm ² |
| Wire connection cross section, finely stranded, min. | 0.5 mm ² | Wire connection cross-section, solid core, max. | 2.5 mm ² |
| Wire connection cross-section, solid core, min. | 0.5 mm ² | | |

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Technical data

General

| | | | |
|---------------------|--------------------------|------|-------|
| Installation advice | Direct mounting | Rail | TS 32 |
| Standards | IEC 60584, IEC 60947-7-1 | | |

Rating data

| | | | |
|--|---------------------|---|--------------------------|
| Rated cross-section | 2.5 mm ² | Standards | IEC 60584, IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Power loss in accordance with IEC 60947-7-x | 0.77 W |
| Pollution severity | 3 | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000904 | ETIM 7.0 | EC000904 |
| ETIM 8.0 | EC000904 | ETIM 9.0 | EC000904 |
| ECLASS 9.0 | 27-14-11-42 | ECLASS 9.1 | 27-14-11-42 |
| ECLASS 10.0 | 27-14-11-42 | ECLASS 11.0 | 27-14-11-42 |
| ECLASS 12.0 | 27-14-11-42 | ECLASS 13.0 | 27-25-01-15 |
| ECLASS 14.0 | 27-25-01-15 | | |

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Approvals

Approvals



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

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity UKCA declaration of conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | StorageConditionsTerminalBlocks |
| Catalogues | Catalogues in PDF-format |

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Accessories

DEK 5/8



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

W-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 | WTW EN | Version |
| Order No. | 1058800000 | Partition plate (terminal), dark beige, Height: 86 mm, Width: 3 mm, |
| GTIN (EAN) | 4008190140175 | V-0, Wemid |
| Qty. | 20 pc(s). | |

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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 5/6 MC SDR | Version |
| Order No. | 1609830000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4008190456603 | Weidmueller, To customer specification |
| Qty. | 200 pc(s). | |
| Type | DEK 5/6 PLUS MC SDR | Version |
| Order No. | 1038650000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4032248767908 | Weidmueller, To customer specification |
| Qty. | 200 pc(s). | |

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General ordering data

| | | | |
|------------|----------------------------|---------|---|
| Type | DEK 5/6.5 MC SDR | Version | |
| Order No. | 1609850000 | | Dekafix, Terminal marker, 5 x 6.5 mm, Pitch in mm (P): 6.50 |
| GTIN (EAN) | 4008190456610 | | Weidmueller, To customer specification |
| Qty. | 180 pc(s). | | |

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DEK 5/6



WS/ DEK

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General ordering data

| | | |
|------------|----------------------------|--|
| Type | DEK 5/6 MM WS | Version |
| Order No. | 2007120000 | Dekafix, Terminal marker, 5 x 6 mm, Weidmueller, white |
| GTIN (EAN) | 4050118392104 | |
| Qty. | 600 pc(s). | |

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. | 1805490000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231 | |
| Qty. | 100 pc(s). | |
| Type | BZT 1 ZA WS 10/5 | Version |
| Order No. | 1805520000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248 | |
| Qty. | 100 pc(s). | |

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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

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/6.5 MC NE WS | Version |
| Order No. | 1609840000 | Dekafix, Terminal marker, 5 x 6.5 mm, Pitch in mm (P): 6.50 |
| GTIN (EAN) | 4008190203429 | Weidmueller, white |
| Qty. | 900 pc(s). | |

Blank



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General ordering data

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

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Accessories

SAK-Series

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 | AP SAK2.5 | Version |
| Order No. | 0279560000 | End plate (terminals), beige, Height: 36.5 mm, Width: 1.5 mm, V-2, |
| GTIN (EAN) | 4008190075736 | Polyamide 66 |
| Qty. | 20 pc(s). | |
| Type | AP SAK2.5 BL | Version |
| Order No. | 0279580000 | End plate (terminals), blue, Height: 36.5 mm, Width: 1.5 mm, V-2, |
| GTIN (EAN) | 4008190050702 | Polyamide 66 |
| Qty. | 20 pc(s). | |

Blank



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General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/6 MC NE BL | Version |
| Order No. | 1238290000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4050118267327 | Weidmueller, blue |
| Qty. | 1,000 pc(s). | |
| Type | DEK 5/6 MC NE GR | Version |
| Order No. | 1238330000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4050118323306 | Weidmueller, grey |
| Qty. | 1,000 pc(s). | |

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| | | |
|------------|----------------------------|---|
| Type | DEK 5/6 MC NE GN | Version |
| Order No. | 1238310000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4050118271812 | Weidmueller, green |
| Qty. | 1,000 pc(s). | |
| Type | DEK 5/6 MC NE OR | Version |
| Order No. | 1912090000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4032248540525 | Weidmueller, orange |
| Qty. | 1,000 pc(s). | |
| Type | DEK 5/6 MC NE WS | Version |
| Order No. | 1609820000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4008190203436 | Weidmueller, white |
| Qty. | 1,000 pc(s). | |
| Type | DEK 5/6 MC NE GE | Version |
| Order No. | 1238280000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4050118038750 | Weidmueller, yellow |
| Qty. | 1,000 pc(s). | |
| Type | DEK 5/6 MC NE BR | Version |
| Order No. | 1454900000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4050118323313 | Weidmueller, brown |
| Qty. | 1,000 pc(s). | |

Plus



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General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/6 PLUS MC NE WS | Version |
| Order No. | 1011320000 | Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00 |
| GTIN (EAN) | 4032248717644 | Weidmueller, white |
| Qty. | 1,000 pc(s). | |

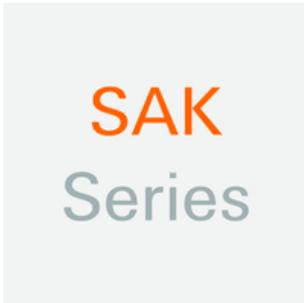
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General ordering data

| | | |
|------------|----------------------------|---|
| Type | TW SAK2.5 | Version |
| Order No. | 0302860000 | Partition plate (terminal), beige, Height: 50 mm, Width: 1.5 mm, V-2, |
| GTIN (EAN) | 4008190032968 | PA 66 |
| Qty. | 20 pc(s). | |
| Type | TW SAK2.5 BL | Version |
| Order No. | 0302880000 | Partition plate (terminal), blue, Height: 50 mm, Width: 1.5 mm, V-2, PA |
| GTIN (EAN) | 4008190047948 | 66 |
| Qty. | 20 pc(s). | |