

## EK 2.5N

**Weidmüller Interfaces GmbH & Co. KG**

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### Product image



A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

### General ordering data

|            |   |
|------------|---|
| Version    | SAK Series, PE terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Screw connection, Green/yellow, Direct mounting |
| Order No.  | <a href="#">0474360000</a>  |
| Type       | EK 2.5N   |
| GTIN (EAN) | 4008190146177   |
| Qty.       | 100 pc(s).  |

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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 | 15.31 g |                 |            |

### Temperatures

|                                  |                |                                  |   |
|----------------------------------|----------------|----------------------------------|---|
| Storage temperature              |                | Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                  | -25 °C...55 °C |                                  |   |
| 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)         | TUEV18ATEX8207U   | Certificate No. (IECEX)         | IECEXTUR18.0017U  |
| Wire cross section max. (ATEX) | 4 mm <sup>2</sup>   | Wire cross section max. (IECEX) | 4 mm <sup>2</sup> |
| 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 eb II C Gb     |

### System specifications

|                                     |   |                               |     |
|-------------------------------------|---|-------------------------------|-----|
| Version                             | Screw connection, With PE connection, 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                 | Yes |
| Rail                                | TS 32   | N-function                    | No  |
| PE function                         | Yes   | PEN function                  | No  |

### Additional technical data

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

### CSA rating data

|                               |           |                               |        |
|-------------------------------|-----------|-------------------------------|--------|
| Certificate No. (CSA)         | 12400-127 | Current size C (CSA)          | 25 A   |
| Voltage size C (CSA)          | 600 V     | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG    |                               |        |

### Conductors for clamping (additional connection)

|   |                     |
|---|---------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 2.5 mm <sup>2</sup> |
|---|---------------------|

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## Conductors for clamping (rated connection)

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Blade size  | 0.6 x 3.5 mm         | Clamping range, max.  | 4 mm <sup>2</sup>   |
| Clamping range, min.  | 0.33 mm <sup>2</sup> | Clamping screw  | M 2.5               |
| Connection cross-section, stranded, max.  | 2.5 mm <sup>2</sup>  | Connection cross-section, stranded, min.  | 0.5 mm <sup>2</sup> |
| Connection direction  | on side              | Gauge to IEC 60947-1  | A3                  |
| Number of connections   | 2                    | Stripping length  | 10 mm               |
| Tightening torque, max.   | 0.8 Nm               | Tightening torque, min.   | 0.4 Nm              |
| Type of connection  | Screw connection     | Wire connection cross section AWG, max.   | AWG 14              |
| Wire connection cross section AWG, min.   | AWG 22               | Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>   |
| Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>  | Wire connection cross-section, solid core, max.   | 4 mm <sup>2</sup>   |
| Wire connection cross-section, solid core, min.   | 0.5 mm <sup>2</sup>  |   |                     |

## General

|   |                 |   |        |
|---|-----------------|---|--------|
| Installation advice                     | Direct mounting | Rail                                    | TS 32  |
| Standards                               | IEC 60947-7-2   | Wire connection cross section AWG, max. | AWG 14 |
| Wire connection cross section AWG, min. | AWG 22          |   |        |

## PE rating data

|  |                              |                              |     |
|--|------------------------------|------------------------------|-----|
| Rated short-time current                 | 300 A (2.5 mm <sup>2</sup> ) | Centre screw on PE terminals | M 3 |
| Tightening torque range for fixing screw | 0.5...0.8 Nm                 | PEN function                 | No  |

## Rating data

|  |                     |  |         |
|--|---------------------|--|---------|
| Rated cross-section                                  | 2.5 mm <sup>2</sup> | Rated voltage to adjoining terminal          | 800 V   |
| Standards  | IEC 60947-7-2       | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Rated impulse withstand voltage to adjacent terminal | 8 kV                | Power loss in accordance with IEC 60947-7-x  | 0.77 W  |
| Pollution severity                                   | 3                   |  |         |

## UL rating data

|   |        |   |        |
|---|--------|---|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 26 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 22 AWG |   |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000901    | ETIM 7.0    | EC000901    |
| ETIM 8.0    | EC000901    | ECLASS 9.0  | 27-14-11-41 |
| ECLASS 9.1  | 27-14-11-41 | ECLASS 10.0 | 27-14-11-41 |
| ECLASS 11.0 | 27-14-11-41 | ECLASS 12.0 | 27-14-11-41 |

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**Technical data**

**Approvals**

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate No. (UR)      | E60693     |
| Certificate No. (cURusEX) | E184763    |

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation Of Conformity</a><br><a href="#">CFAT EK 2.5N</a><br><a href="#">CB Certificate</a><br><a href="#">CB Test Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">IECEx Certificate</a><br><a href="#">ATEX Certificate</a><br><a href="#">UKCA Ex Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">CE Declaration of Conformity all terminals</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Engineering Data                            | <a href="#">WSCAD</a>  |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">NTI SAK 2.5/32</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |