

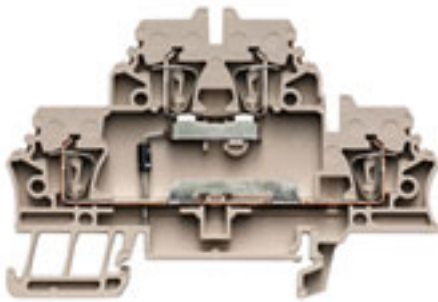
**ZDK 2.5/D/1****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Why not integrating simple electrical functions into a feed through terminal. It has the same slim design of our feed-through terminal blocks - with additional functions such as cross-connections that can be used. Often, you only need a small component to integrate an external device into your automation technology. Our modular terminal blocks with electronic components make this possible; quickly, simply, and with a perfect fit.

**General ordering data**

|            |                                                                                                                                     |
|------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Z-series, Component terminal, Double-tier terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Tension-clamp connection, dark beige |
| Order No.  | <a href="#">1690020000</a>                                                                                                          |
| Type       | ZDK 2.5/D/1                                                                                                                         |
| GTIN (EAN) | 4008190877897                                                                                                                       |
| Qty.       | 50 Stück                                                                                                                            |

Erstellungs-Datum May 30, 2023 2:24:43 PM CEST

Katalogstand 26.05.2023 / Technische Änderungen vorbehalten

## ZDK 2.5/D/1

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## Technische Daten

### Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 53 mm      | Depth (inches) | 2.087 inch |
| Depth including DIN rail | 54 mm      | Height         | 79.1 mm    |
| Height (inches)          | 3.114 inch | Width          | 5.1 mm     |
| Width (inches)           | 0.201 inch | Net weight     | 10.64 g    |

### Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -50 °C |
| Continuous operating temp., max. | 120 °C         |                                  |        |

### Material data

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | dark beige |
| UL 94 flammability rating | V-0   |        |            |

### System specifications

|                                     |                                                                                              |                               |     |
|-------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------|-----|
| Version                             | Tension-clamp connection, for plug-in cross-connector, One end without connector, with diode | End cover plate required      | Yes |
| Number of potentials                | 1                                                                                            | Number of levels              | 2   |
| Number of clamping points per level | 2                                                                                            | Number of potentials per tier | 1   |
| Levels cross-connected internally   | Yes                                                                                          | PE connection                 | No  |
| Rail                                | TS 35                                                                                        | N-function                    | No  |
| PE function                         | No                                                                                           | PEN function                  | No  |

### Additional technical data

|                      |       |                          |         |
|----------------------|-------|--------------------------|---------|
| Electronic component | Diode | Explosion-tested version | Yes     |
| Open sides           | right | Type of mounting         | Snap-on |

### CSA rating data

|                                          |                 |                                          |        |
|------------------------------------------|-----------------|------------------------------------------|--------|
| Certificate No. (CSA)                    | 80053378-200039 | Conductor size Factory wiring max. (CSA) | 12 AWG |
| Conductor size Factory wiring min. (CSA) | 26 AWG          | Conductor size Field wiring max. (CSA)   | 12 AWG |
| Conductor size Field wiring min. (CSA)   | 26 AWG          |                                          |        |

### Component

|                 |                 |         |
|-----------------|-----------------|---------|
| Component diode | Type diode      | 1N4007  |
|                 | Forward current | 1 A     |
|                 | Reverse voltage | 1,300 V |
|                 | Forward voltage | 0.7 V   |

### Conductors for clamping (additional connection)

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

### Conductors for clamping (rated connection)

Blade size 0.6 x 3.5 mm

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|                                                                                         |                                        |                     |                      |
|-----------------------------------------------------------------------------------------|----------------------------------------|---------------------|----------------------|
| Clamping range, max.                                                                    | 2.5 mm <sup>2</sup>                    |                     |                      |
| Clamping range, min.                                                                    | 0.05 mm <sup>2</sup>                   |                     |                      |
| Connection direction                                                                    | top                                    |                     |                      |
| Gauge to IEC 60947-1                                                                    | A2                                     |                     |                      |
| Number of connections                                                                   | 4                                      |                     |                      |
| Stripping length                                                                        | 10 mm                                  |                     |                      |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4                        | Tube length                            | min.                | 6 mm                 |
|                                                                                         |                                        | max.                | 10 mm                |
|                                                                                         | Cross-section for conductor connection | nominal             | 0.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.                | 6 mm                 |
|                                                                                         |                                        | max.                | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal             | 0.75 mm <sup>2</sup> |
|                                                                                         | Tube length                            | min.                | 6 mm                 |
|                                                                                         |                                        | max.                | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal             | 1 mm <sup>2</sup>    |
|                                                                                         | Tube length                            | min.                | 8 mm                 |
|                                                                                         |                                        | max.                | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal             | 1.5 mm <sup>2</sup>  |
| Tube length                                                                             | min.                                   | 8 mm                |                      |
|                                                                                         | max.                                   | 12 mm               |                      |
| Cross-section for conductor connection                                                  | nominal                                | 2.5 mm <sup>2</sup> |                      |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     | Tube length                            | nominal             | 10 mm                |
|                                                                                         |                                        | nominal             | 0.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | nominal             | 10 mm                |
|                                                                                         |                                        | nominal             | 0.75 mm <sup>2</sup> |
|                                                                                         | Tube length                            | nominal             | 10 mm                |
|                                                                                         |                                        | nominal             | 1 mm <sup>2</sup>    |
|                                                                                         | Tube length                            | min.                | 10 mm                |
|                                                                                         |                                        | max.                | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal             | 1.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.                | 10 mm                |
|                                                                                         |                                        | max.                | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal             | 2.5 mm <sup>2</sup>  |
| Twin wire-end ferrules, max.                                                            | 0.34 mm <sup>2</sup>                   |                     |                      |
| Twin wire-end ferrules, min.                                                            | 0.14 mm <sup>2</sup>                   |                     |                      |
| Type of connection                                                                      | Tension-clamp connection               |                     |                      |
| Wire connection cross section AWG, min.                                                 | AWG 30                                 |                     |                      |
| Wire connection cross section, finely stranded, max.                                    | 2.5 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. | 1.5 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, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm <sup>2</sup>                    |                     |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>                    |                     |                      |
| Wire connection cross-section, solid core, max.                                         | 2.5 mm <sup>2</sup>                    |                     |                      |
| Wire connection cross-section, solid core, min.                                         | 0.5 mm <sup>2</sup>                    |                     |                      |

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## Technische Daten

### General

|                                         |        |           |               |
|-----------------------------------------|--------|-----------|---------------|
| Rail                                    | TS 35  | Standards | IEC 60947-7-1 |
| Wire connection cross section AWG, min. | AWG 30 |           |               |

### Rating data

|                                 |                     |                                              |         |
|---------------------------------|---------------------|----------------------------------------------|---------|
| Rated cross-section             | 2.5 mm <sup>2</sup> | Rated voltage                                | 500 V   |
| Rated current                   | 0.5 A               | Current at maximum wires                     | 0.5 A   |
| Standards                       | IEC 60947-7-1       | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Rated impulse withstand voltage | 6 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) | 14 AWG |
| Conductor size Factory wiring min. (UR) | 26 AWG | Conductor size Field wiring max. (UR)   | 14 AWG |
| Conductor size Field wiring min. (UR)   | 26 AWG | Current size C (UR)                     | 15 A   |
| Voltage size C (UR)                     | 300 V  |                                         |        |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000903    | ETIM 7.0    | EC000903    |
| ETIM 8.0    | EC000903    | ECLASS 9.0  | 27-14-11-27 |
| ECLASS 9.1  | 27-14-11-47 | ECLASS 10.0 | 27-14-11-27 |
| ECLASS 11.0 | 27-14-11-27 | ECLASS 12.0 | 27-14-11-27 |

### Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | c6099607-b1cd-4fc8-8f5b-8c2defa73093 |

### Important note

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| Product information | The allowed continuous operating temperature must be observed |
|---------------------|---------------------------------------------------------------|

### Approvals

Approvals



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

## Technische Daten

### Downloads

|                                             |                                                                                                                                                                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EAC certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">CE Declaration of Conformity all terminals</a><br><a href="#">UKCA declaration of conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                   |
| Engineering Data                            | <a href="#">WSCAD</a>                                                                                                                                                                                                             |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                                   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                          |
| Brochures                                   |                                                                                                                                                                                                                                   |

