Data sheet

# ZDU 2.5 S OR

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image



Building installation wiring
For building installations, we offer a complete system that revolves around the 10×3 copper rail and comprises perfectly coordinated components: from installation terminal blocks, neutral conductor terminal blocks and distribution terminal blocks to comprehensive accessories such as busbars and busbar holders.

## General ordering data

| | |
|---|---|
| Version | Z-series, Installation multi-tier terminal, Feed-through terminal, Rated cross-section: 2.5 mm², Tension-clamp connection, Direct mounting |
| Order No. | 1271530000 |
| Type | ZDU 2.5 S OR |
| GTIN (EAN) | 4050118072402 |
| Qty. | 100 items |
| Delivery status | Discontinued |
| Available until | 2023-03-31T00:00:00+02:00 |
| Alternative product | AITB 2.5 BB 2C |

# Data sheet

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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 43.15 mm | Depth (inches) | 1.6988 inch |
| Depth including DIN rail | 44 mm | Height | 61 mm |
| Height (inches) | 2.4016 inch | Width | 5.1 mm |
| Width (inches) | 0.2008 inch | Net weight | 6.45 g |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -5 °C...40 °C |
| Continuous operating temp., min. | -50 | Continuous operating temp., max. | 120 |

### Environmental Product Compliance

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

### Material data

| | | | |
|---|---|---|---|
| Basic material | Wemid | Colour | orange |
| UL 94 flammability rating | V-0 | | |

### System specifications

| | | | |
|---|---|---|---|
| Version | Tension-clamp connection, for plug-in cross-connector, 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 |
| Mounting rail | TS 35 | N-function | No |
| PE function | No | PEN function | No |

### Additional technical data

| | | | |
|---|---|---|---|
| Installation advice | Direct mounting | Type of mounting | Snap-on |

### Conductors for clamping (additional connection)

| | |
|---|---|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 2.5 mm² |

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Gauge to IEC 60947-1 | A2 | Wire connection cross section AWG, max. | AWG 14 |
| Connection direction | Inclined / angled | Stripping length | 10 mm |

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| | | | |
|---|---|---|---|
| Type of connection | Tension-clamp connection | Number of connections | 2 |
| Clamping range, max. | 4 mm² | Clamping range, min. | 0.5 mm² |
| Blade size | 0.6 x 3.5 mm | Wire connection cross section AWG, min. | AWG 26 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm² |
| Wire connection cross section, finely stranded, max. | 4 mm² | Wire connection cross section, finely stranded, min. | 0.5 mm² |
| Wire connection cross-section, solid core, max. | 4 mm² | Wire connection cross-section, solid core, min. | 0.5 mm² |

### General

| | | | |
|---|---|---|---|
| Wire connection cross section AWG, max. | AWG 14 | Installation advice | Direct mounting |
| Wire connection cross section AWG, min. | AWG 26 | Standards | IEC 60947-7-1 |
| Mounting rail | TS 35 | | |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 2.5 mm² | Rated voltage | 400 V |
| Rated DC voltage | 400 V | Nominal current | 24 A |
| Current at maximum wires | 24 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 |

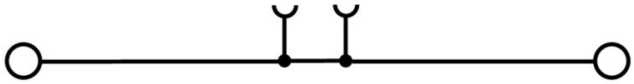
### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC001329 | ETIM 9.0 | EC001329 |
| ETIM 10.0 | EC001329 | ECLASS 14.0 | 27-25-01-10 |
| ECLASS 15.0 | 27-25-01-10 | | |

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## Drawings



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## Accessories

### Cross-connections






The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

### General ordering data

| | | |
|---|---|---|
| Type | ZQV 2.5/2 | Version |
| Order No. | 1608860000 | Z-series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190123680 | |
| Qty. | 60 ST | |
| Type | ZQV 2.5/3 | Version |
| Order No. | 1608870000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190061630 | |
| Qty. | 60 ST | |
| Type | ZQV 2.5/4 | Version |
| Order No. | 1608880000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190082208 | |
| Qty. | 60 ST | |
| Type | ZQV 2.5/5 | Version |
| Order No. | 1608890000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190065713 | |
| Qty. | 20 ST | |
| Type | ZQV 2.5/6 | Version |
| Order No. | 1608900000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190149840 | |
| Qty. | 20 ST | |
| Type | ZQV 2.5/7 | Version |
| Order No. | 1608910000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190159665 | |
| Qty. | 20 ST | |
| Type | ZQV 2.5/8 | Version |
| Order No. | 1608920000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190061531 | |
| Qty. | 20 ST | |
| Type | ZQV 2.5/9 | Version |
| Order No. | 1608930000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190117009 | |
| Qty. | 20 ST | |
| Type | ZQV 2.5/10 | Version |
| Order No. | 1608940000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190099060 | |
| Qty. | 20 ST | |
| Type | ZQV 2.5/20 | Version |
| Order No. | 1908960000 | Z-series, Cross-connector, For the terminals, Number of poles: 20 |
| GTIN (EAN) | 4032248535293 | |
| Qty. | 20 ST | |

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## Accessories

| | | |
|---|---|---|
| Type | ZQV 2.5/50 | Version |
| Order No. | 1697540000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190883256 | |
| Qty. | 10 ST | |

### End plates and partition plates

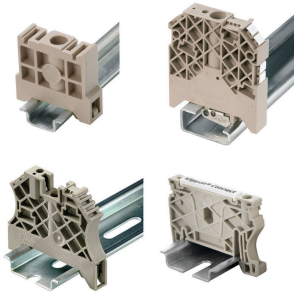


Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

### General ordering data

| | | |
|---|---|---|
| Type | ZAP ZDU 2.5 S | Version |
| Order No. | 1808030000 | Z-series, End plate |
| GTIN (EAN) | 4032248279937 | |
| Qty. | 20 ST | |
| Type | ZAP ZDU 2.5 S BL | Version |
| Order No. | 1808040000 | Z-series, End plate |
| GTIN (EAN) | 4032248279944 | |
| Qty. | 20 ST | |
| Type | ZAP ZDU 2.5 S OR | Version |
| Order No. | 1808050000 | Z-series, End plate |
| GTIN (EAN) | 4032248279951 | |
| Qty. | 20 ST | |
| Type | ZHP S | Version |
| Order No. | 1808290000 | Z-series, Fixing plate |
| GTIN (EAN) | 4032248280520 | |
| Qty. | 20 ST | |
| Type | ZHP S SO | Version |
| Order No. | 1808280000 | Z-series, Fixing plate |
| GTIN (EAN) | 4032248280513 | |
| Qty. | 20 ST | |

### End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

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# Accessories

## General ordering data

| | | |
|---|---|---|
| Type | EW 35 | Version |
| Order No. | 0383560000 | End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C |
| GTIN (EAN) | 4008190181314 | |
| Qty. | 50 ST | |
| Type | EW 35 GR 7032 | Version |
| Order No. | 0383530000 | End bracket, grey, TS 35, V-0, Wemid, Width: 9 mm, 120 °C |
| GTIN (EAN) | 4008190027322 | |
| Qty. | 50 ST | |
| Type | EW 35/SCHA/M3 | Version |
| Order No. | 0258660000 | End bracket, beige, TS 35, V-2, Wemid, Width: 16.5 mm, 100 °C |
| GTIN (EAN) | 4008190033477 | |
| Qty. | 20 ST | |
| Type | WEW 35/1 | Version |
| Order No. | 1059000000 | End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C |
| GTIN (EAN) | 4008190172282 | |
| Qty. | 50 ST | |
| Type | WEW 35/2 | Version |
| Order No. | 1061200000 | End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C |
| GTIN (EAN) | 4008190030230 | |
| Qty. | 50 ST | |
| Type | ZEW 35 | Version |
| Order No. | 9540000000 | End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C |
| GTIN (EAN) | 4008190956264 | |
| Qty. | 20 ST | |
| Type | ZEW 35/2 | Version |
| Order No. | 8630740000 | End bracket, dark beige, TS 35, V-2, Wemid, Width: 8 mm, 100 °C |
| GTIN (EAN) | 4032248348916 | |
| Qty. | 20 ST | |

## Busbars



With our bus bars in various materials and the associated accessories, you can connect cables in the smallest installation space. Depending on the application, potentials can be collected, distributed or dissipated.

## General ordering data

| | | |
|---|---|---|
| Type | SSCH 10X3X1000 CU/SN | Version |
| Order No. | 0348900000 | Busbar (terminal), silver, Height: 1000 mm, Depth: 3 mm, Copper |
| GTIN (EAN) | 4008190024802 | |
| Qty. | 25 M | |

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## Accessories

### Busbar connections



Weidmueller offers tapping terminals for various types of bus bar systems. Depending on the application, a distinction can be made here between insulated and non-insulated tap-off terminals.

### General ordering data

| | | |
|---|---|---|
| Type | ZB 16K BL | Version |
| Order No. | 0502880000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190014186 | |
| Qty. | 50 ST | |
| Type | ZB 16K GE/GN | Version |
| Order No. | 0502860000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190188795 | |
| Qty. | 50 ST | |
| Type | ZB 16K SW | Version |
| Order No. | 0502810000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190332563 | |
| Qty. | 50 ST | |
| Type | ZB 16 ZKSC | Version |
| Order No. | 0316600000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190145989 | |
| Qty. | 50 ST | |
| Type | ZB 35K BL M6X16 | Version |
| Order No. | 0502680000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190004385 | |
| Qty. | 20 ST | |
| Type | ZB 35K GE/GN M6X16 | Version |
| Order No. | 0502660000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190052294 | |
| Qty. | 20 ST | |
| Type | ZB 35K SW M6X16 | Version |
| Order No. | 0502610000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190332587 | |
| Qty. | 20 ST | |
| Type | ZB 35/M6X16 | Version |
| Order No. | 0266500000 | Terminal (busbar connection) |
| GTIN (EAN) | 4008190102814 | |
| Qty. | 20 ST | |

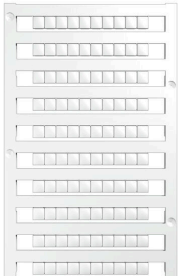
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## Accessories

### 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.

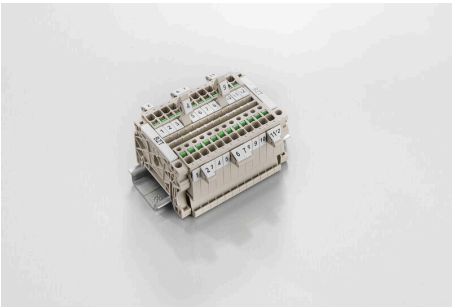
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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 5/5 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. | 1000 ST | |
| Type | WS 10/5 M MC NE WS | Version |
| Order No. | 1792000000 | WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4032248223862 | Allen-Bradley, white |
| Qty. | 720 ST | |
| Type | ZS 15/5 MC NE WS | Version |
| Order No. | 1646630000 | ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190401214 | Allen-Bradley, white |
| Qty. | 480 ST | |

### 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 snaped 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 ST | |
| Type | BZT 1 ZA WS 10/5 | Version |
| Order No. | 1805520000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248 | |
| Qty. | 100 ST | |

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## Accessories

### Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

### General ordering data

| | | |
|---|---|---|
| Type | SDIS SLIM 0.6X3.5X100 | Version |
| Order No. | 2749610000 | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118896350 | thickness (A): 0.6 mm |
| Qty. | 1 ST | |