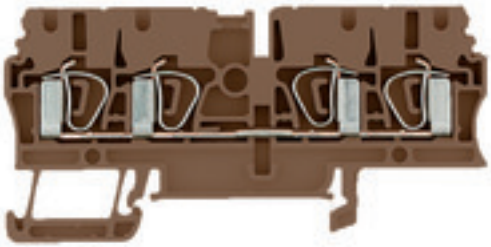
# ZDU 2.5/4AN BR

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

www.weidmueller.com

## Product image



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

### General ordering data

| | |
|---|---|
| Version | Feed-through terminal, Tension-clamp connection, 2.5 mm², 800 V, 24 A, brown |
| Order No. | 1683460000 |
| Type | ZDU 2.5/4AN BR |
| GTIN (EAN) | 4008190478254 |
| Qty. | 100 pc(s). |

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## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 38.5 mm | Depth (inches) | 1.516 inch |
| Depth including DIN rail | 39.5 mm | Height | 79.5 mm |
| Height (inches) | 3.13 inch | Width | 5.1 mm |
| Width (inches) | 0.201 inch | Net weight | 12.12 g |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

### Material data

| | | | |
|---|---|---|---|
| Material | Wemid | Colour | brown |
| UL 94 flammability rating | V-0 | | |

### Rating data IECEx/ATEX

| | | | |
|---|---|---|---|
| Certificate No. (ATEX) | DEMKO15ATEX1467U | Certificate No. (IECEX) | IECEXULD15.0008U |
| Max. voltage (ATEX) | 550 V | Current (ATEX) | 22 A |
| Wire cross section max. (ATEX) | 4 mm² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 22 A | Wire cross section max. (IECEX) | 4 mm² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | Ex eb II C Gb |
| Ex 2014/34/EU label | II 2 G D | | |

### System specifications

| | | | |
|---|---|---|---|
| Version | Tension-clamp connection, for plug-in cross-connector, One end without connector | End cover plate required | Yes |
| Number of levels | 1 | Number of clamping points per level | 4 |
| Number of potentials per tier | 1 | Levels cross-connected internally | No |
| PE connection | No | Rail | TS 35 |

### Additional technical data

| | | | |
|---|---|---|---|
| Explosion-tested version | Yes | Installation advice | Busbar |
| Number of similar terminals | 1 | Open sides | right |
| Type of mounting | Snap-on | | |

### CSA rating data

| | | | |
|---|---|---|---|
| Certificate No. (CSA) | 200039-1152892 | Current size B (CSA) | 27 A |
| Current size C (CSA) | 27 A | Current size D (CSA) | 5 A |
| Voltage size B (CSA) | 600 V | Voltage size C (CSA) | 600 V |
| Voltage size D (CSA) | 600 V | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG | | |

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## Technical data

### Conductors for clamping (additional connection)

| | |
|---|---|
| Connection type, additional connection | Tension-clamp connection |

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Blade size | 0.6 x 3.5 mm | Clamping range, max. | 4 mm² |
| Clamping range, min. | 0.05 mm² | Connection direction | top |
| Gauge to IEC 60947-1 | A3 | Number of connections | 4 |
| Stripping length | 10 mm | Type of connection | Tension-clamp connection |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 30 |
| Wire connection cross section, finely stranded, max. | 4 mm² | Wire connection cross section, finely stranded, 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 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, solid core, max. | 4 mm² | Wire connection cross-section, solid core, min. | 0.5 mm² |

### General

| | | | |
|---|---|---|---|
| Installation advice | Busbar | Rail | TS 35 |
| Standards | IEC 60947-7-1 | Wire connection cross section AWG, max. | AWG 12 |
| Wire connection cross section AWG, min. | AWG 30 | | |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 2.5 mm² | Rated voltage | 800 V |
| Rated DC voltage | 800 V | Rated current | 24 A |
| Current at maximum wires | 27 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Rated impulse withstand voltage | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 0.77 W | Pollution severity | 3 |

### UL rating data

| | | | |
|---|---|---|---|
| Certificate No. (cURus) | E60693 | Conductor size Factory wiring max. (cURus) | 12 AWG |
| Conductor size Factory wiring min. (cURus) | 30 AWG | Conductor size Field wiring max. (cURus) | 12 AWG |
| Conductor size Field wiring min. (cURus) | 30 AWG | Current size C (cURus) | 25 A |
| Voltage size C (cURus) | 600 V | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC000897 | ETIM 7.0 | EC000897 |
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ECLASS 9.0 | 27-14-11-20 | ECLASS 9.1 | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |
| ECLASS 12.0 | 27-14-11-20 | ECLASS 13.0 | 27-25-01-01 |

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## Technical data

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | / |
| RoHS Compliance Status | Compliant without exemption |

### Approvals

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

### Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Attestation of Conformity<br>UKCA Ex Attestation of Conformity<br>IECEx Certificate<br>DNVGL certificate<br>Lloyds Register Certificate<br>CCC Ex Certificate<br>ATEX Certificate<br>UKCA Ex Certificate<br>RINA Certificate<br>17-AV4BO-0546U<br>Declaration of Conformity<br>UKCA declaration of conformity<br>Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| Engineering Data | Zuken E3.S |
| Product Change Notification | PCN ZDU 2.5 4AN DE<br>PCN ZDU 2.5 4AN EN |
| User Documentation | StorageConditionsTerminalBlocks<br>NTI ZDU/ZPE 2.5/4AN<br>User Manual Z-Series |
| Catalogues | Catalogues in PDF-format |

## ZDU 2.5/4AN BR

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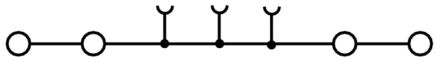
## Drawings



# ZDU 2.5/4AN BR

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## Accessories

### SAK-Series

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.

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

# ZDU 2.5/4AN BR

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## Accessories

### Test plugs

Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

### General ordering data

| | | |
|---|---|---|
| Type | PS 2.3 RT | Version |
| Order No. | 0180400000 | Test adapter (terminal), 230 V, 20 mA |
| GTIN (EAN) | 4008190060121 | |
| Qty. | 20 pc(s). | |

### 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 5/5 MC SDR | Version |
| Order No. | 1609810000 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190456597 | Weidmueller, To customer specification |
| Qty. | 200 pc(s). | |

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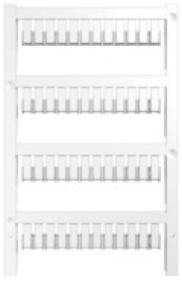
## Accessories

### Blank



ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.
- Hinged marker area
- Can be fitted in strips or individually
- Markers in proven MultiCard format

**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 | ZS 10/5 MC NE WS | Version |
| Order No. | 1610000000 | ZS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190263171 | Allen-Bradley, white |
| Qty. | 480 pc(s). | |

### Blank

WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.
- Can be fitted in strips or individually
- Markers in proven MultiCard format

**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 | WS 10/5 MC NE WS | Version |
| Order No. | 1635000000 | WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190261948 | Allen-Bradley, white |
| Qty. | 720 pc(s). | |
| 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 pc(s). | |

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## Accessories

### Z-Series

Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

#### General ordering data

| | | |
|---|---|---|
| Type | ZAD 1/4 | Version |
| Order No. | 1609110000 | Z-series, Cover |
| GTIN (EAN) | 4008190190910 | |
| Qty. | 20 pc(s). | |

### Z-Series

Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

#### General ordering data

| | | |
|---|---|---|
| Type | ZTA 1 | Version |
| Order No. | 1609040000 | Accessories, Test adapter, 9 A |
| GTIN (EAN) | 4008190196851 | |
| Qty. | 25 pc(s). | |
| Type | ZTA 1/ZA | Version |
| Order No. | 1609050000 | Accessories, Test adapter, 9 A |
| GTIN (EAN) | 4008190206543 | |
| Qty. | 25 pc(s). | |

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## Accessories

### Z-Series

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.

### General ordering data

| | | |
|---|---|---|
| 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 pc(s). | |

| | | |
|---|---|---|
| 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 pc(s). | |

### W-Series

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.

### General ordering data

| | | |
|---|---|---|
| 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 pc(s). | |

| | | |
|---|---|---|
| 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 pc(s). | |

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## Accessories

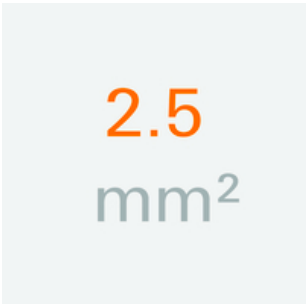
### Z-Series

The use of reducing sleeves simplifies the connection of conductors with smaller cross-sections. Conductors can be reliably inserted into the clamping point without the strands fraying. The use of a reducing sleeve centres the conductor in the entry point.

#### General ordering data

| | | |
|---|---|---|
| Type | ZRH 2.5/3 | Version |
| Order No. | 1614280000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190206796 | |
| Qty. | 1,000 pc(s). | |
| Type | ZRH 2.5/2 GR/V0 | Version |
| Order No. | 1614290000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190072476 | |
| Qty. | 1,000 pc(s). | |
| Type | ZRH 2.5/1 WS | Version |
| Order No. | 1614300000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190206789 | |
| Qty. | 1,000 pc(s). | |

### 2.5 mm²




The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

#### General ordering data

| | | |
|---|---|---|
| Type | ZQV 2.5/7 | Version |
| Order No. | 1608910000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190159665 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/10 | Version |
| Order No. | 1608940000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190099060 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/5 | Version |
| Order No. | 1608890000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190065713 | |
| Qty. | 20 pc(s). | |

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## Accessories

| | | |
|---|---|---|
| Type | ZQV 2.5/8 | Version |
| Order No. | 1608920000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190061531 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/9 | Version |
| Order No. | 1608930000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190117009 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/6 | Version |
| Order No. | 1608900000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190149840 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/2 | Version |
| Order No. | 1608860000 | Z-series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190123680 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 2.5/3 | Version |
| Order No. | 1608870000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190061630 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 2.5/4 | Version |
| Order No. | 1608880000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190082208 | |
| Qty. | 60 pc(s). | |
| 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 pc(s). | |
| Type | ZQV 2.5/50 | Version |
| Order No. | 1697540000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190883256 | |
| Qty. | 10 pc(s). | |

### 2.5 mm²

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 | ZAP/TW 3 SW | Version |
| Order No. | 1683890000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477615 | |
| Qty. | 50 pc(s). | |

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## Accessories

| | | |
|---|---|---|
| Type | ZAP/TW 3 OR | Version |
| Order No. | 1608820000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190190941 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 3 | Version |
| Order No. | 1608800000 | Z-series, Accessories, End plate, Partition plate |
| GTIN (EAN) | 4008190190927 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 3 RT | Version |
| Order No. | 1683820000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477547 | |
| Qty. | 50 pc(s). | |

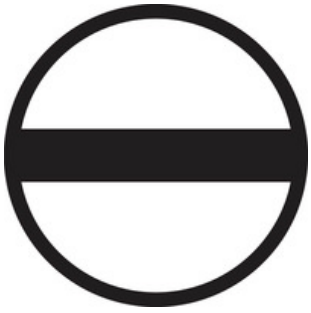
| | | |
|---|---|---|
| Type | ZAP/TW 3 GR | Version |
| Order No. | 1683870000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477592 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 3 WS | Version |
| Order No. | 1683880000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477608 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 3 BL | Version |
| Order No. | 1608810000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190190934 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 3 GN | Version |
| Order No. | 1683840000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477561 | |
| Qty. | 50 pc(s). | |

### 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 pc(s). | |