

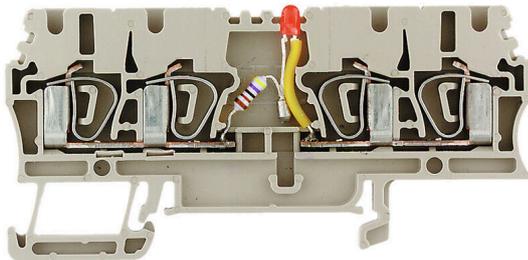
ZDU 2.5/2X2AN/LD+**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Fuse terminal blocks and component terminal blocks allow protective and functional elements to be integrated directly into the terminal strip. Fuse terminal blocks include built-in fuse holders to reliably protect electrical circuits against overload —ideal for control and distribution systems. Component terminal blocks make it possible to incorporate electronic components such as diodes, resistors, or LEDs directly into the wiring. This enables space-saving and clearly arranged implementation of switching functions and signal separation. Both types of terminal blocks ensure higher safety, easy maintenance, and a compact, function-oriented installation.

General ordering data

| | |
|------------|---|
| Version | Z-series, Component terminal, Rated cross-section: 2.5 mm ² , Tension-clamp connection, dark beige |
| Order No. | 1692590000 |
| Type | ZDU 2.5/2X2AN/LD+ |
| GTIN (EAN) | 4008 190869304 |
| Qty. | 20 items |

ZDU 2.5/2X2AN/LD+

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|--------------------------|-------------|----------------|-------------|
| Depth | 38.5 mm | Depth (inches) | 1.5157 inch |
| Depth including DIN rail | 39.5 mm | Height | 79.5 mm |
| Height (inches) | 3.1299 inch | Width | 5.1 mm |
| Width (inches) | 0.2008 inch | Net weight | 13.5 g |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -50 °C...75 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7cl |
| REACH SVHC | No SVHC above 0.1 wt% |

Material data

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

System specifications

| | | | |
|-------------------------------------|---|-------------------------------|-----|
| Version | Tension-clamp connection, with LED, 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 | Yes | PE connection | No |
| Mounting rail | TS 35 | N-function | No |
| PE function | No | PEN function | No |

Additional technical data

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

Conductors for clamping (additional connection)

| | | | |
|---|---------------------|--|--------------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 2.5 mm ² | Connection type, additional connection | Tension-clamp connection |
|---|---------------------|--|--------------------------|

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Technical data

Conductors for clamping (rated connection)

| | | | |
|---|--------------------------|---|----------------------|
| Gauge to IEC 60947-1 | A3 | Wire connection cross section AWG, max. | AWG 12 |
| Connection direction | top | Stripping length | 10 mm |
| Type of connection | Tension-clamp connection | Number of connections | 4 |
| Clamping range, max. | 4 mm ² | Clamping range, min. | 0.05 mm ² |
| Blade size | 0.6 x 3.5 mm | Wire connection cross section AWG, min. | AWG 30 |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.05 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.05 mm ² |
| Wire connection cross section, finely stranded, max. | 4 mm ² | Wire connection cross section, finely stranded, min. | 0.05 mm ² |
| Connection cross-section, stranded, max. | 4 mm ² | Connection cross-section, stranded, min. | 0.05 mm ² |
| Wire connection cross-section, solid core, max. | 4 mm ² | Wire connection cross-section, solid core, min. | 0.05 mm ² |
| Connection cross-section, finely stranded, min. | 0.05 mm ² | | |

General

| | | | |
|---|---------------|---|--------|
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 30 |
| Standards | IEC 60947-7-1 | Mounting rail | TS 35 |

Rating data

| | | | |
|--|---------------------|---------------------------------|---------------|
| Rated cross-section | 2.5 mm ² | Rated voltage | 24 V |
| Rated DC voltage | 24 V | Nominal current | 0.05 A |
| Current at maximum wires | 0.05 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 2.66 mΩ | Rated impulse withstand voltage | 6 kV |
| Power loss in accordance with IEC 60947-7-x | 0.77 W | Pollution severity | 3 |

Important note

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 | | |

Drawings

Connection diagram



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Accessories

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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/TW 3 | Version |
| Order No. | 1608800000 | Z-series, Accessories, End plate, Partition plate |
| GTIN (EAN) | 4008190190927 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 BL | Version |
| Order No. | 1608810000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190190934 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 GN | Version |
| Order No. | 1683840000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477561 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 GR | Version |
| Order No. | 1683870000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477592 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 OR | Version |
| Order No. | 1608820000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190190941 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 RT | Version |
| Order No. | 1683820000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477547 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 SW | Version |
| Order No. | 1683890000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477615 | |
| Qty. | 50 ST | |
| Type | ZAP/TW 3 WS | Version |
| Order No. | 1683880000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190477608 | |
| Qty. | 50 ST | |

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Accessories

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.

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 | |

Testadapter and testsockets



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.

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Accessories

General ordering data

| | | |
|------------|----------------------------|---------------------------------------|
| Type | ZTA 1 | Version |
| Order No. | 1609040000 | Accessories, Test adapter, 9 A |
| GTIN (EAN) | 4008190196851 | |
| Qty. | 25 ST | |
| Type | ZTA 1/ZA | Version |
| Order No. | 1609050000 | Accessories, Test adapter, 9 A |
| GTIN (EAN) | 4008190206543 | |
| Qty. | 25 ST | |
| Type | PS 2.0 OR | Version |
| Order No. | 0293800000 | Test adapter (terminal), 230 V, 20 mA |
| GTIN (EAN) | 4008190042356 | |
| Qty. | 20 ST | |
| Type | PS 2.3 RT | Version |
| Order No. | 0180400000 | Test adapter (terminal), 230 V, 20 mA |
| GTIN (EAN) | 4008190060121 | |
| Qty. | 20 ST | |

Reducing sleeves



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 2.5/1 WS | Version |
| Order No. | 1614300000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190206789 | |
| Qty. | 1000 ST | |
| Type | ZRH 2.5/2 GR/V0 | Version |
| Order No. | 1614290000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190072476 | |
| Qty. | 1000 ST | |
| Type | ZRH 2.5/3 | Version |
| Order No. | 1614280000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190206796 | |
| Qty. | 1000 ST | |

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Accessories

Warning cover



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 ST | | |

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 ST | | |

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Accessories

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 10/15 MC NE WS | Version |
| Order No. | 1854090000 | WS, Terminal marker, 10 x 15 mm, Pitch in mm (P): 15.00 |
| GTIN (EAN) | 4032248390694 | Weidmueller, Allen-Bradley, white |
| Qty. | 240 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 | 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 ST | |

ZGB pivotable group tag holder



The ZGB 15 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 15.

The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.

Inlay tags and protective strips can be found under "Accessories".

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ZGB 15 | Version |
| Order No. | 1636530000 | Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190297053 | Weidmueller, white |
| Qty. | 20 ST | |
| Type | ZGB 30 | Version |
| Order No. | 1611930000 | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190002251 | Weidmueller, white |
| Qty. | 20 ST | |

ZDU 2.5/2X2AN/LD+

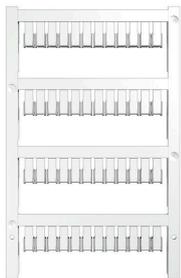
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Accessories

| | | | |
|------------|----------------------------|---|--|
| Type | ZGB 30/3.5 | Version | |
| Order No. | 1778290000 | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 3.50 | |
| GTIN (EAN) | 4032248161065 | white | |
| Qty. | 20 ST | | |

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 ST | | |

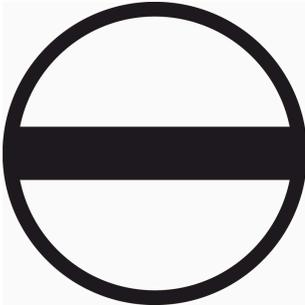
Marker holder



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

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 | | |