

**ZDU 2.5-2/4AN****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

**General ordering data**

|            |  |
|------------|--|
| Version    | Feed-through terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 800 V, 24 A, dark beige |
| Order No.  | <a href="#">1706060000</a>   |
| Type       | ZDU 2.5-2/4AN  |
| GTIN (EAN) | 4008 1909 15407  |
| Qty.       | 100 pc(s).   |

Creation date January 27, 2022 7:04:02 AM CET

Catalogue status 14.01.2022 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 43 mm      | Depth (inches) | 1.693 inch |
| Depth including DIN rail | 44 mm      | Height         | 50.5 mm    |
| Height (inches)          | 1.988 inch | Width          | 5.1 mm     |
| Width (inches)           | 0.201 inch | Net weight     | 7.3 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            | Continuous operating temp., max. | 120   |

**Material data**

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

**Rating data IECEx/ATEX**

|                                |   |                                 |                   |
|--------------------------------|---|---------------------------------|-------------------|
| Certificate No. (ATEX)         | DEMKO16ATEX1808U  | Certificate No. (IECEX)         | IECEXULD16.0036U  |
| Max. voltage (ATEX)            | 550 V   | Current (ATEX)                  | 21 A              |
| Wire cross section max. (ATEX) | 4 mm <sup>2</sup>   | Max. voltage (IECEX)            | 550 V             |
| Current (IECEX)                | 21 A  | 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 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   | Number of similar terminals | 1       |
| Open sides               | right | Type of mounting            | Snap-on |

**CSA rating data**

|                               |                |                               |        |
|-------------------------------|----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-1194786 | Current size C (CSA)          | 23 A   |
| Voltage size C (CSA)          | 600 V          | Wire cross section max. (CSA) | 14 AWG |
| Wire cross section min. (CSA) | 26 AWG         |                               |        |

**Conductors for clamping (rated connection)**

|                      |                      |
|----------------------|----------------------|
| Blade size           | 0.6 x 3.5 mm         |
| Clamping range, max. | 2.5 mm <sup>2</sup>  |
| Clamping range, min. | 0.13 mm <sup>2</sup> |

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## Technical data

|   |   |  |                      |                     |
|---|---|--|----------------------|---------------------|
| Connection direction  | Inclined / angled   |  |                      |                     |
| 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                        | Cross-section for conductor connection                              | nominal                                | 0.5 mm <sup>2</sup>  |                     |
|   |   | min.                                   | 6 mm                 |                     |
|   |   | max.                                   | 10 mm                |                     |
|   | Cross-section for conductor connection                              | nominal                                | 0.75 mm <sup>2</sup> |                     |
|   |   | min.                                   | 6 mm                 |                     |
|   |   | max.                                   | 10 mm                |                     |
|   | Cross-section for conductor connection                              | nominal                                | 1 mm <sup>2</sup>    |                     |
|   |   | min.                                   | 6 mm                 |                     |
|   |   | max.                                   | 10 mm                |                     |
|   | Cross-section for conductor connection                              | nominal                                | 1.5 mm <sup>2</sup>  |                     |
|   |   | min.                                   | 8 mm                 |                     |
|   |   | max.                                   | 10 mm                |                     |
|   | Cross-section for conductor connection                              | nominal                                | 2.5 mm <sup>2</sup>  |                     |
|   |   | nominal                                | 8 mm                 |                     |
|   | Tube length for wire-end ferrule without plastic collar DIN 46228/1 | Cross-section for conductor connection | nominal              | 0.5 mm <sup>2</sup> |
| nominal   |   |  | 10 mm                |                     |
| Cross-section for conductor connection  |   | nominal                                | 0.75 mm <sup>2</sup> |                     |
|   |   | nominal                                | 10 mm                |                     |
| Cross-section for conductor connection  |   | nominal                                | 1 mm <sup>2</sup>    |                     |
|   |   | nominal                                | 10 mm                |                     |
| Cross-section for conductor connection  |   | nominal                                | 1.5 mm <sup>2</sup>  |                     |
|   |   | nominal                                | 10 mm                |                     |
| Cross-section for conductor connection  |   | nominal                                | 2.5 mm <sup>2</sup>  |                     |
|   |   | nominal                                | 10 mm                |                     |
| Type of connection  |   | Tension-clamp connection               |                      |                     |
| Wire connection cross section AWG, max.   |   | AWG 12                                 |                      |                     |
| Wire connection cross section AWG, min.   |   | AWG 26                                 |                      |                     |
| 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. | 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, 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>   |  |                      |                     |

### General

|   |        |   |               |
|---|--------|---|---------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 26        |

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**Technical data****Rating data**

|                                 |                     |  |         |
|---------------------------------|---------------------|--|---------|
| Rated cross-section             | 2.5 mm <sup>2</sup> | Rated voltage                                | 800 V   |
| Rated 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 | 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)   | 26 AWG | Current size C (UR)                     | 20 A   |
| Voltage size C (UR)                     | 600 V  |   |        |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | 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 |             |             |

**Approvals**

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">ATEX Certificate</a><br><a href="#">IECEx Certificate</a><br><a href="#">CB Test Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">DNVGL certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">CCC 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="#">EPLAN, WSCAD, Zuken E3.S</a>   |
| User Documentation                          | <a href="#">NTI ZDU/ZPE 2.5-2/4AN</a><br><a href="#">StorageConditionsTerminalBlocks</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   |  |

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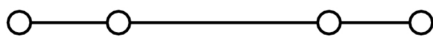
**Data sheet**

**ZDU 2.5-2/4AN**

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**Drawings**



## ZDU 2.5-2/4AN

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## Accessories

## 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.

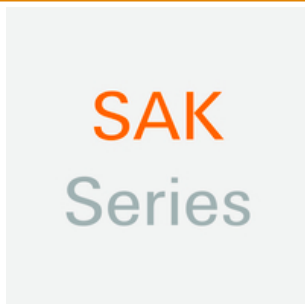
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

**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.  | <a href="#">1609810000</a> | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190456597              | Weidmueller, To customer specification                    |
| Qty.       | 200 pc(s).                 |   |

## 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.  | <a href="#">0383560000</a> | Accessories, End bracket |
| GTIN (EAN) | 4008190181314              |                          |
| Qty.       | 50 pc(s).                  |                          |
| Type       | EW 35/SCHA/M3              | Version                  |
| Order No.  | <a href="#">0258660000</a> | Accessories, End bracket |
| GTIN (EAN) | 4008190033477              |                          |
| Qty.       | 20 pc(s).                  |                          |
| Type       | EW 35 GR 7032              | Version                  |
| Order No.  | <a href="#">0383530000</a> | Accessories, End bracket |
| GTIN (EAN) | 4008190027322              |                          |
| Qty.       | 50 pc(s).                  |                          |

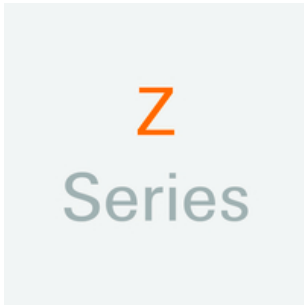
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**Accessories**

**Z-Series**

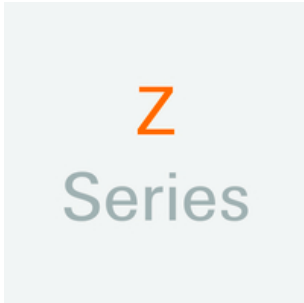


Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

**General ordering data**

|            |                            |                       |
|------------|----------------------------|-----------------------|
| Type       | ZEW 35/2                   | Version               |
| Order No.  | <a href="#">8630740000</a> | Z-series, End bracket |
| GTIN (EAN) | 4032248348916              |                       |
| Qty.       | 20 pc(s).                  |                       |
| Type       | ZEW 35                     | Version               |
| Order No.  | <a href="#">9540000000</a> | Z-series, End bracket |
| GTIN (EAN) | 4008190956264              |                       |
| 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 4                      | Version                         |
| Order No.  | <a href="#">1688110000</a> | Accessories, Test adapter, 11 A |
| GTIN (EAN) | 4008190855666              |                                 |
| Qty.       | 25 pc(s).                  |                                 |

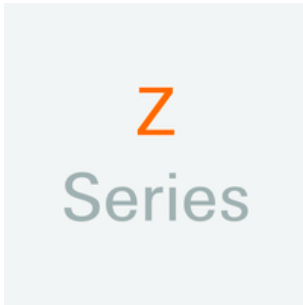
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# Accessories

## Z-Series

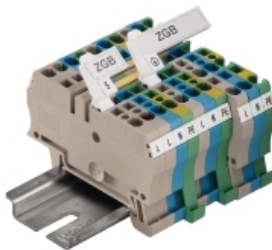


Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

### General ordering data

|            |                            |                 |
|------------|----------------------------|-----------------|
| Type       | ZAD 1/4-2 GE               | Version         |
| Order No.  | <a href="#">1764560000</a> | Z-series, Cover |
| GTIN (EAN) | 4032248066063              |                 |
| Qty.       | 20 pc(s).                  |                 |

## 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.  | <a href="#">1636530000</a> | Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190297053              | Weidmueller, white  |
| Qty.       | 20 pc(s).                  |   |
| Type       | ZGB 30                     | Version   |
| Order No.  | <a href="#">1611930000</a> | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190002251              | Weidmueller, white  |
| Qty.       | 20 pc(s).                  |   |



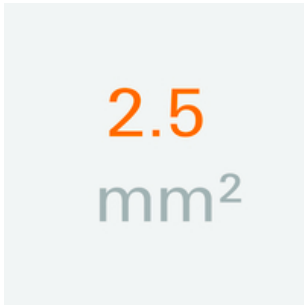
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# Accessories

## 2.5 mm<sup>2</sup>



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/TW7 BL                 | Version                              |
| Order No.  | <a href="#">1706120000</a> | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190915469              |                                      |
| Qty.       | 50 pc(s).                  |                                      |
| Type       | ZAP/TW7                    | Version                              |
| Order No.  | <a href="#">1706110000</a> | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190915452              |                                      |
| Qty.       | 50 pc(s).                  |                                      |
| Type       | ZAP/TW7 OR                 | Version                              |
| Order No.  | <a href="#">1706130000</a> | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190915476              |                                      |
| Qty.       | 50 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 35/2                   | Version               |
| Order No.  | <a href="#">1061200000</a> | W-Series, End bracket |
| GTIN (EAN) | 4008190030230              |                       |
| Qty.       | 50 pc(s).                  |                       |
| Type       | WEW 35/1                   | Version               |
| Order No.  | <a href="#">1059000000</a> | W-Series, End bracket |
| GTIN (EAN) | 4008190172282              |                       |
| Qty.       | 50 pc(s).                  |                       |

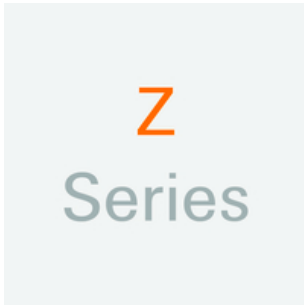
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**Accessories**

**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 1.5H/1                 | Version                   |
| Order No.  | <a href="#">1678810000</a> | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190487324              |                           |
| Qty.       | 1,000 pc(s).               |                           |
| Type       | ZRH 1.5H/2                 | Version                   |
| Order No.  | <a href="#">1678800000</a> | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190487317              |                           |
| Qty.       | 1,000 pc(s).               |                           |

**2.5 mm<sup>2</sup>**



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       | ZQB 2.5-2                  | Version                                   |
| Order No.  | <a href="#">1677120000</a> | Accessories, Cross-connector bridge, 24 A |
| GTIN (EAN) | 4008190467678              |   |
| Qty.       | 50 pc(s).                  |   |

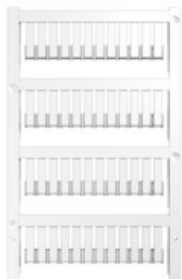
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**Accessories**

**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 15/5 MC NE WS           | Version  |
| Order No.  | <a href="#">1646630000</a> | ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190401214              | Allen-Bradley, white   |
| Qty.       | 480 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.  | <a href="#">2749610000</a> | 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).                   |   |

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