

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.

| Version    | Z-series, Component terminal, Feed-through<br>terminal, Rated cross-section: 2.5 mm², Tension-<br>clamp connection, beige |
|------------|---|
| Order No.  | <u>1650340000</u>   |
| Туре       | ZDU 2.5/2X2AN/D+  |
| GTIN (EAN) | 4008190297398   |
| Qty.       | 20 pc(s).   |



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# **Technical data**

| -   | -       |     |         |
|-----|---------|-----|---------|
| Dım | ensions | 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     | 10.66 g    |

### **Temperatures**

| Storage temperature              | -25 °C55 °C | Continuous operating temp., min. | -50 |
|----------------------------------|-------------|----------------------------------|-----|
| Continuous operating temp., max. | 120         |                                  |     |

### **Environmental Product Compliance**

| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|
|            |                |

#### **Material data**

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

### **System specifications**

| Version                             | Tension-clamp connection, with diode, One end | End cover plate required      |     |
|-------------------------------------|---|-------------------------------|-----|
|                                     | without connector                             |                               | Yes |
| Number of potentials                | 1   | 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   | 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 |  |

### Component

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



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# **Technical data**

### **Conductors for clamping (rated connection)**

| Blade size  | 0.6 x 3.5 mm             | Clamping range, max.  | 4 mm <sup>2</sup>           |
|---|--------------------------|---|-----------------------------|
| Clamping range, min.  | 0.5 mm <sup>2</sup>      | Connection direction  |                             |
| Gauge to IEC 60947-1  | A3                       | Number of connections   | top<br>4                    |
| Stripping length  | 10 mm                    | Type of connection  | Tension-clamp connection    |
| Wire connection cross section, finely   | 10 111111                | Wire connection cross section, finely   | Terision-clarify connection |
| stranded, max.  | 4 mm <sup>2</sup>        | stranded, min.  | 0.5 mm <sup>2</sup>         |
| 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. | 1.5 mm²                     |
| Wire connection cross-section, solid  |                          | Wire connection cross-section, solid  |                             |
| core, max.  | 4 mm <sup>2</sup>        | core, min.  | 0.5 mm <sup>2</sup>         |
| General   |                          |   |                             |
| Rail  | TS 35                    | Standards   | IEC 60947-7-1               |
| Rating data   |                          |   |                             |
| Rated cross-section   | 2.5 mm <sup>2</sup>      | Rated voltage   | 400 V                       |
| Rated current   | 1 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 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              |   |                             |
| Important note  |                          |   |                             |
| Product information   | The allowed continuous o | operating temperature must be observed  |                             |
| Approvals   |                          |   |                             |
|   |                          |   |                             |
|   |                          | 3   |                             |
| Approvals   | CEIII                    |   |                             |



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# **Technical data**

#### **Downloads**

| Approval/Certificate/Document of | EAC certificate                            |
|----------------------------------|--|
| Conformity                       | Declaration of Conformity                  |
|                                  | CE Declaration of Conformity all terminals |
| Engineering Data                 | CAD data – STEP                            |
| Engineering Data                 | EPLAN, WSCAD                               |
| User Documentation               | StorageConditionsTerminalBlocks            |
|                                  | BPZL Z-Series                              |
| Catalogues                       | Catalogues in PDF-format                   |
| Brochures                        |  |

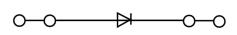


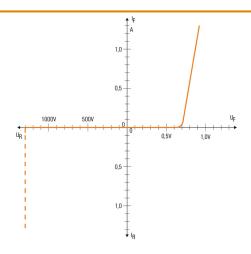
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# **Drawings**







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## **Accessories**

#### **Z-Series**

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**

| Туре              | ZEW 35/2             | Version                       |
|-------------------|----------------------|-------------------------------|
| Order No.         | <u>8630740000</u>    | Z-series, End bracket         |
| GTIN (EAN)        | 4032248348916        |                               |
| Qty.              | 20 pc(s).            |                               |
|                   |                      |                               |
| Туре              | ZEW 35               | Version                       |
| Type<br>Order No. | ZEW 35<br>9540000000 | Version Z-series, End bracket |
|                   |                      |                               |

### 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.

| Туре              | 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).                     |  |
|                   |                                |  |
| Туре              | WS 10/5 MC NE WS               | Version  |
| Type<br>Order No. | WS 10/5 MC NE WS<br>1635000000 | Version WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
|                   | ,                              |  |



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# **Accessories**

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

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.

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



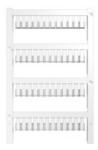
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## **Accessories**

#### **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 10/5 MC NE WS
Order No. 1610000000
GTIN (EAN) 4008190263171

480 pc(s).

Version

ZS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,

Allen-Bradley, white

### **SAK-Series**

Qty.

Qty.



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 TA 1
Order No. <u>0535860000</u>
GTIN (EAN) 4008190111915

20 pc(s).

Version

SAK Series, Test adapter

Creation date January 14, 2022 12:16:11 AM CET



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# **Accessories**

#### **SAK-Series**



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### **General ordering data**

| Туре       | EW 35 GR 7032 | Version                  |
|------------|---------------|--------------------------|
| Order No.  | 0383530000    | Accessories, End bracket |
| GTIN (EAN) | 4008190027322 |                          |
| Qty.       | 50 pc(s).     |                          |
| Туре       | EW 35/SCHA/M3 | Version                  |
| Order No.  | 0258660000    | Accessories, End bracket |
| GTIN (EAN) | 4008190033477 |                          |
| Qty.       | 20 pc(s).     |                          |
| Туре       | EW 35         | Version                  |
| Order No.  | 0383560000    | Accessories, End bracket |
| GTIN (EAN) | 4008190181314 |                          |
| Qty.       | 50 pc(s).     |                          |

### **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.

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



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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**

| Туре       | PS 4 F.STB 4  | Version                |
|------------|---------------|------------------------|
| Order No.  | 0299600000    | Accessories, Test plug |
| GTIN (EAN) | 4008190074043 |                        |
| Qty.       | 20 pc(s).     |                        |
| Туре       | PS 2.0 OR     | Version                |
| Order No.  | 0293800000    | Accessories, Test plug |
| GTIN (EAN) | 4008190042356 |                        |
| Qty.       | 20 pc(s).     |                        |
| Туре       | PS 2.3 RT     | Version                |
| Order No.  | 0180400000    | Accessories, Test plug |
| GTIN (EAN) | 4008190060121 |                        |
| Qty.       | 20 pc(s).     |                        |

### Blank



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- 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.

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



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# **Accessories**

#### 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**

| Туре              | WEW 35/2               | Version                       |
|-------------------|------------------------|-------------------------------|
| Order No.         | <u>1061200000</u>      | W-Series, End bracket         |
| GTIN (EAN)        | 4008190030230          |                               |
| Qty.              | 50 pc(s).              |                               |
|                   |                        |                               |
| Туре              | WEW 35/1               | Version                       |
| Type<br>Order No. | WEW 35/1<br>1059000000 | Version W-Series, End bracket |
|                   | ,                      |                               |

### 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".

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



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# Accessorie<u>s</u>

### **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**

DEK 5/5 MC SDR Order No. 1609810000 GTIN (EAN) 4008190456597 200 pc(s). Qty.

Version

Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00

Weidmueller, To customer specification

### 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-vanadiummolybdenum steel, gun-metal finish.

### General ordering data

Qty.

Туре SDIS SLIM 0.6X3.5X100 2749610000 Order No.

GTIN (EAN) 4050118896350 1 pc(s).

Version

Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade

thickness (A): 0.6 mm



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# **Accessories**

### **Z-Series**

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
Order No. 1609110000
GTIN (EAN) 4008190190910
Oty. 20 pc(s).

Version Z-series, Cover

#### **Z-Series**

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**

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

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