

**Z-series
ZDU 2.5-2/3AN RT**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
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Fax: +49 5231 14-292083
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

| | |
|------------|---|
| Type | ZDU 2.5-2/3AN RT |
| Order No. | 1946220000 |
| Version | Feed-through terminal, Tension-clamp connection, 2.5 mm ² , 800 V, 24 A, red |
| GTIN (EAN) | 4032248621187 |
| Qty. | 100 pc(s). |

Creation date May 3, 2020 9:45:22 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

Data sheet

Z-series ZDU 2.5-2/3AN RT

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Technical data

Dimensions and weights

| | | | |
|--------------------------|---------|-----------------|------------|
| Width | 5.1 mm | Width (inches) | 0.201 inch |
| Height | 50.5 mm | Height (inches) | 1.988 inch |
| Depth | 43 mm | Depth (inches) | 1.693 inch |
| Depth including DIN rail | 44 mm | Net weight | 7.12 g |

Temperatures

| | | | |
|----------------------------------|---|----------------------------------|---------------|
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Storage temperature, max. | 40 °C |
| Storage temperature, min. | 10 °C | Storage temperature | 10 °C...40 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

Material data

| | | | |
|---------------------------|-------|--------|-----|
| Material | Wemid | Colour | red |
| 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 ² | Max. voltage (IECEX) | 550 V |
| Current (IECEX) | 21 A | Wire cross section max. (IECEX) | 4 mm ² |
| 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 | 3 |
| 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 | | |

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Technical data**Conductors for clamping (rated connection)**

| | | | |
|---|----------------------|---|--------------------------|
| Blade size | 0.6 x 3.5 mm | Clamping range, max. | 2.5 mm ² |
| Clamping range, min. | 0.13 mm ² | Connection direction | Inclined / angled |
| Gauge to IEC 60947-1 | A2 | Number of connections | 3 |
| 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 26 |
| Wire connection cross section, finely stranded, max. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 1.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |
| Wire connection cross-section, solid core, max. | 2.5 mm ² | Wire connection cross-section, solid core, min. | 0.5 mm ² |

Dimensions

| | |
|--------------|---------|
| TS 35 offset | 25.5 mm |
|--------------|---------|

Rating data

| | | | |
|--|---------------------|---|---------------|
| Rated cross-section | 2.5 mm ² | Rated voltage | 800 V |
| Rated current | 24 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Power loss in accordance with IEC 60947-7-x | 0.77 W |
| Rated impulse withstand voltage | 8 kV | 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 |
| eClass 9.0 | 27-14-11-20 | eClass 9.1 | 27-14-11-20 |
| eClass 10.0 | 27-14-11-20 | | |

Approvals

Approvals



ROHS Conform

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Technical data**Downloads**

| | |
|---|--|
| Approval/Certificate/Document of Conformity | Attestation of Conformity ATEX Certificate IECEX Certificate CB Test Certificate CB Certificate DE_PT1141_20160418_1228_ISSUE01.pdf |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| User Documentation | NTI ZDU/ZPE 2.5-2/3AN StorageConditionsTerminalBlocks |

Safety note

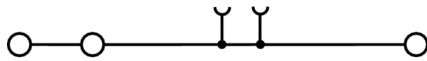
| | |
|---------------|------------------------------------|
| Safety notice | Safety Information |
|---------------|------------------------------------|

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Drawings



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Accessories

ZQV 2.5



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

| | | |
|------------|----------------------------|---|
| Type | ZQV 2.5/7 | Version |
| Order No. | 1608910000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190159665 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/4 | Version |
| Order No. | 1608880000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190082208 | |
| Qty. | 60 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 2.5/9 | Version |
| Order No. | 1608930000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190117009 | |
| 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). | |
| 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 2.5/2 | Version |
| Order No. | 1608860000 | Z-series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190123680 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 2.5/8 | Version |
| Order No. | 1608920000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190061531 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/10 | Version |
| Order No. | 1608940000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190099060 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 2.5/3 | Version |
| Order No. | 1608870000 | Accessories, Cross-connector, 24 A |
| GTIN (EAN) | 4008190061630 | |
| Qty. | 60 pc(s). | |

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Accessories

| | | | |
|------------|----------------------------|------------------------------------|--|
| Type | ZQV 2.5/50 | Version | |
| Order No. | 1697540000 | Accessories, Cross-connector, 24 A | |
| GTIN (EAN) | 4008190883256 | | |
| Qty. | 10 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 laser printer, PrintJet ADVANCED, plotter or MC-Mobilo 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 12/5 MC NE WS | Version | |
| Order No. | 1609860000 | WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, | |
| GTIN (EAN) | 4008190203481 | Allen-Bradley, white | |
| Qty. | 720 pc(s). | | |

End bracket



Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

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

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Accessories

| | | | |
|------------|----------------------------|--------------------------|--|
| Type | EW 35 GR 7032 | Version | |
| Order No. | 0383530000 | Accessories, End bracket | |
| GTIN (EAN) | 4008190027322 | | |
| Qty. | 50 pc(s). | | |

Covers



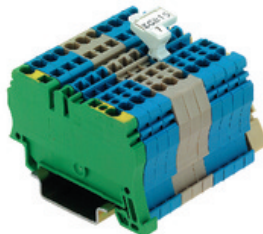
Spring connection with tension clamp Technology

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General ordering data

| | | | |
|------------|----------------------------|-----------------|--|
| Type | ZAD 1/4-2 GE | Version | |
| Order No. | 1764560000 | 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 30 | Version | |
| Order No. | 1611930000 | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 | |
| GTIN (EAN) | 4008190002251 | white | |
| Qty. | 20 pc(s). | | |
| 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 pc(s). | | |

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Accessories

End brackets

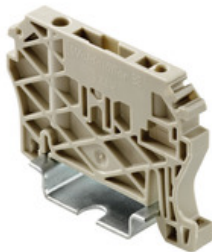


Klippon® Connect with clamping yoke Technology
 The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

| | | |
|------------|----------------------------|-----------------------|
| Type | WEW 35/1 | Version |
| Order No. | 1059000000 | W-Series, End bracket |
| GTIN (EAN) | 4008190172282 | |
| Qty. | 50 pc(s). | |
| Type | WEW 35/2 | Version |
| Order No. | 1061200000 | W-Series, End bracket |
| GTIN (EAN) | 4008190030230 | |
| Qty. | 100 pc(s). | |

End brackets



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General ordering data

| | | |
|------------|----------------------------|-----------------------|
| Type | ZEW 35/2 | Version |
| Order No. | 8630740000 | Z-series, End bracket |
| GTIN (EAN) | 4032248348916 | |
| Qty. | 20 pc(s). | |
| Type | ZEW 35 | Version |
| Order No. | 9540000000 | Z-series, End bracket |
| GTIN (EAN) | 4008190956264 | |
| Qty. | 20 pc(s). | |

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Accessories

End plates



Spring connection with tension clamp Technology

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General ordering data

| | | |
|------------|----------------------------|---------------------------------------|
| Type | ZAP/TW7 BL | Version |
| Order No. | 1706120000 | Z-series, End plate, Separation plate |
| GTIN (EAN) | 4008190915469 | |
| Qty. | 50 pc(s). | |
| Type | ZAP/TW7 | Version |
| Order No. | 1706110000 | Z-series, End plate, Separation plate |
| GTIN (EAN) | 4008190915452 | |
| Qty. | 50 pc(s). | |
| Type | ZAP/TW7 OR | Version |
| Order No. | 1706130000 | Z-series, End plate, Separation plate |
| GTIN (EAN) | 4008190915476 | |
| Qty. | 50 pc(s). | |

Reduction Sleeves



Spring connection with tension clamp Technology

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General ordering data

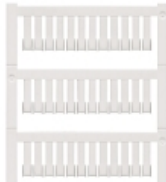
| | | |
|------------|----------------------------|---------------------------|
| Type | ZRH 1.5H/2 | Version |
| Order No. | 1678800000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190487317 | |
| Qty. | 1,000 pc(s). | |
| Type | ZRH 1.5H/1 | Version |
| Order No. | 1678810000 | Z-series, Reducing sleeve |
| GTIN (EAN) | 4008190487324 | |
| Qty. | 1,000 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. | 1646630000 | ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190401214 | Allen-Bradley, white |
| Qty. | 480 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

Test adapter



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General ordering data

| Type | ZTA 4 | Version |
|------------|----------------------------|---------------------------------|
| Order No. | 1688110000 | Accessories, Test adapter, 11 A |
| GTIN (EAN) | 4008190855666 | |
| Qty. | 25 pc(s). | |

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| Type | SDS 0.6X3.5X100 | Version |
|------------|----------------------------|---|
| Order No. | 9008330000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm |
| GTIN (EAN) | 4032248056286 | |
| Qty. | 1 pc(s). | |