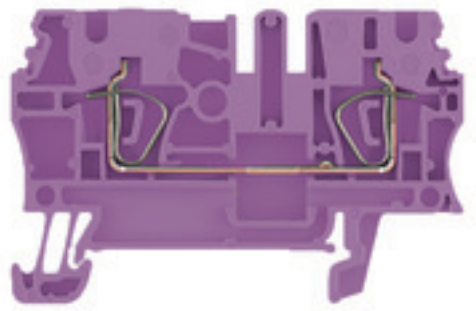


**Z-series  
ZDU 2.5 VI**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
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Fon: +49 5231 14-0  
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**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 VI                                                                                 |
| Order No.  | <a href="#">1683290000</a>                                                                 |
| Version    | Feed-through terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 800 V, 24 A, violet |
| GTIN (EAN) | 4008190477844                                                                              |
| Qty.       | 100 pc(s).                                                                                 |

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

|                          |         |                 |            |
|--------------------------|---------|-----------------|------------|
| Width                    | 5.1 mm  | Width (inches)  | 0.201 inch |
| Height                   | 59.5 mm | Height (inches) | 2.343 inch |
| Depth                    | 38.5 mm | Depth (inches)  | 1.516 inch |
| Depth including DIN rail | 39.5 mm | Net weight      | 7.58 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 | violet |
| UL 94 flammability rating | V-0   |        |        |

**Rating data IECEx/ATEX**

|                                |                                                                                                   |                                 |                     |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Certificate No. (ATEX)         | KEMA97ATEX252 1U                                                                                  | Certificate No. (IECEX)         | IECEXULD05.0009U    |
| Max. voltage (ATEX)            | 550 V                                                                                             | Current (ATEX)                  | 21 A                |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>                                                                               | Max. voltage (IECEX)            | 550 V               |
| Current (IECEX)                | 20 A                                                                                              | Wire cross section max. (IECEX) | 2.5 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                                                                                | No. of clamping points per level  | 2     |
| 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  |
| 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 (rated connection)**

|                                                                                         |                          |                                                                                         |                      |
|-----------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------|----------------------|
| Clamping range, max.                                                                    | 4 mm <sup>2</sup>        | Clamping range, min.                                                                    | 0.05 mm <sup>2</sup> |
| Connection direction                                                                    | top                      | Gauge to IEC 60947-1                                                                    | A3                   |
| Number of connections                                                                   | 2                        | Stripping length                                                                        | 10 mm                |
| Type of connection                                                                      | Tension-clamp connection |                                                                                         |                      |
| Wire connection cross section AWG, min.                                                 | AWG 30                   | Wire connection cross section AWG, max.                                                 | AWG 12               |
| 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, max.                                    | 4 mm <sup>2</sup>    |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, 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, min.                                    | 0.5 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, min.                                         | 0.5 mm <sup>2</sup>      | Wire connection cross-section, solid core, max.                                         | 4 mm <sup>2</sup>    |

**Rating data**

|                                              |                     |                                 |               |
|----------------------------------------------|---------------------|---------------------------------|---------------|
| Rated cross-section                          | 2.5 mm <sup>2</sup> | Rated voltage                   | 800 V         |
| Rated current                                | 24 A                | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ             | 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) | 30 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 30 AWG | Current size C (UR)                     | 25 A   |
| Voltage size C (UR)                     | 600 V  |                                         |        |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000897    | ETIM 4.0   | EC000897    |
| ETIM 5.0   | EC000897    | ETIM 6.0   | EC000897    |
| UNSPSC     | 30-21-18-11 | eClass 5.1 | 27-14-11-20 |
| eClass 6.2 | 27-14-11-20 | eClass 7.1 | 27-14-11-20 |
| eClass 8.1 | 27-14-11-20 | eClass 9.0 | 27-14-11-20 |
| eClass 9.1 | 27-14-11-20 |            |             |

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## Technical data

### Approvals

Approvals



ROHS Conform

### Downloads

|                                             |                                                                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">IECEX Certificate</a><br><a href="#">ATEX Certificate</a><br><a href="#">DE_PT1101_20160418_1184_ISSUE01.pdf</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                  |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                      |
| User Documentation                          | <a href="#">Cross Connection Guide</a>                                                                                                                                    |

### Safety note

|               |                                    |
|---------------|------------------------------------|
| Safety notice | <a href="#">Safety Information</a> |
|---------------|------------------------------------|

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## Drawings

