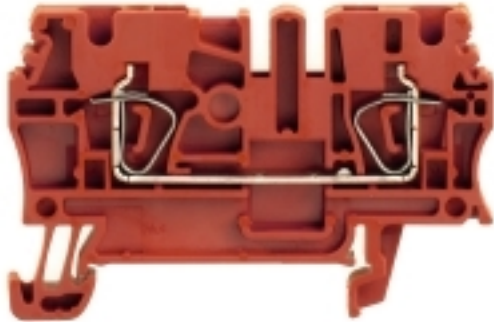


**Z-series
ZDU 2.5 RT**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 1429-0
Fax: +49 5231 14292083
www.weidmueller.com

**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 RT |
| Order No. | 1683260000 |
| Version | Feed-through terminal, Tension clamp connection, 2.5 mm ² , 800 V, 24 A, Red |
| GTIN (EAN) | 4008190477813 |
| 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 | 7.01 g |

Temperatures

| | | | |
|----------------------------------|--------|----------------------------------|--------|
| 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) | KEMA97ATEX2521U | ATEX certificate | KEMA97ATEX2521U_d.pdf |
| ATEX certificate | KEMA97ATEX2521U_e.pdf | Certificate No. (IECEX) | IECEXULD05.0009U |
| IEC Ex certificate | IECEXULD05.0009U_e.pdf | Max. voltage (ATEX) | 550 V |
| Current (ATEX) | 21 A | Wire cross section max. (ATEX) | 2.5 mm ² |
| Max. voltage (IECEX) | 550 V | Current (IECEX) | 20 A |
| Wire cross section max. (IECEX) | 2.5 mm ² | Voltage, cross-connection | CrossConnectionGuide.pdf |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | |
| Ex 2014/34/EU label | II 2 G D | | Ex e II |

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 | Mounting 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) | 200039-1152892 | 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)

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------|---------------------|
| Blade size | 0.6 x 3.5 mm | Clamping range, rated connection, max. | 4 mm ² |
| Clamping range, rated connection, min. | 0.05 mm ² | Connection direction | top |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm ² | 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, max. | AWG 12 |
| Wire connection cross section AWG, min. | AWG 30 | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max. | 2.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min. | 0.5 mm ² | Wire connection cross section, finely stranded, max. | 4 mm ² |
| Wire connection cross section, solid core max. rated connection | 4 mm ² | Wire connection cross section, solid core, min. rated connection | 0.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 2.5 mm ² | Wire connection cross-section, finely stranded, min. | 0.5 mm ² |

Rating data

| | | | |
|---------------------------------|---------------------|----------------------------------------------|---------|
| Rated cross-section | 2.5 mm ² | Rated voltage | 800 V |
| Rated current | 24 A | Current at maximum wires | 31 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 | | |

Product information

Descriptive text ordering data Rated voltage is reduced to 400 V when using the cross-connector.

Data sheet

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Technical data

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---------------------------------------------|-----------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | CFAT_ZDU 2.5.pdf DE_PT1101_20160418_1179_ISSUE01.pdf |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |

Safety note

Safety notice [Safety Information](#)

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Drawings

