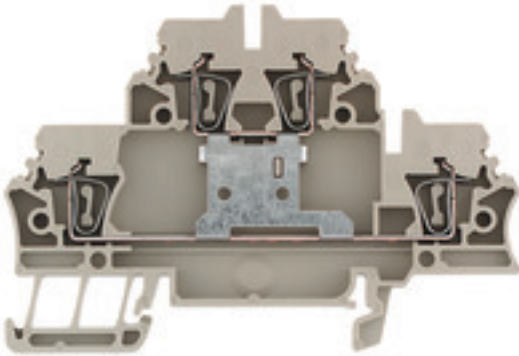


**ZDK 2.5V****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, Double-tier terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 500 V, 20 A, dark beige |
| Order No.  | <a href="#">1689990000</a>                                                                                           |
| Type       | ZDK 2.5V                                                                                                             |
| GTIN (EAN) | 4008190875459                                                                                                        |
| Qty.       | 50 pc(s).                                                                                                            |

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## Technical data

## Dimensions and weights

|                          |          |                |          |
|--------------------------|----------|----------------|----------|
| Depth                    | 53 mm    | Depth (inches) | 2.087 °C |
| Depth including DIN rail | 54 mm    | Height         | 79.5 mm  |
| Height (inches)          | 3.13 °C  | Width          | 5.1 mm   |
| Width (inches)           | 0.201 °C | Net weight     | 10.56 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. | -60 °C         | Continuous operating temp., max. | 130 °C                                                                                            |

## Material data

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

## Rating data IECEx/ATEX

|                                |                                                                                                   |                                 |                     |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|---------------------|
| Certificate No. (ATEX)         | DEMKO16ATEX1729U                                                                                  | Certificate No. (IECEX)         | IECEXULD16.0025U    |
| Max. voltage (ATEX)            | 440 V                                                                                             | Current (ATEX)                  | 20 A                |
| Wire cross section max. (ATEX) | 2.5 mm <sup>2</sup>                                                                               | Max. voltage (IECEX)            | 440 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 2014/34/EU label            | II 2 G D                                                                                          |                                 | Ex eb II C Gb       |

## System specifications

|                                   |                                                                                                              |                                     |     |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|
| Version                           | Tension-clamp connection, Vertically cross-connected, for plug-in cross-connector, One end without connector | End cover plate required            | Yes |
| Number of levels                  | 2                                                                                                            | Number of clamping points per level | 2   |
| Levels cross-connected internally | Yes                                                                                                          | 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)                    | 80053378-200039 | Conductor size Factory wiring max. (CSA) | 12 AWG |
| Conductor size Factory wiring min. (CSA) | 26 AWG          | Conductor size Field wiring max. (CSA)   | 12 AWG |
| Conductor size Field wiring min. (CSA)   | 26 AWG          | Current size B (CSA)                     | 10 A   |
| Current size D (CSA)                     | 10 A            | Voltage size B (CSA)                     | 300 V  |
| Voltage size D (CSA)                     | 300 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, max.                                                                    | 2.5 Nm                   |
| Clamping range, min.                                                                    | 0.05 Nm      | Connection direction                                                                    | top                      |
| Gauge to IEC 60947-1                                                                    | A2           | Number of connections                                                                   | 4                        |
| Stripping length                                                                        | 10 mm        | Type of connection                                                                      | Tension-clamp connection |
| Wire connection cross section AWG, max.                                                 | AWG 14       | Wire connection cross section AWG, min.                                                 | AWG 24                   |
| Wire connection cross section, finely stranded, max.                                    | 2.5 Nm       | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 Nm                   |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 Nm       | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 Nm                   |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 Nm       | Wire connection cross-section, solid core, max.                                         | 2.5 Nm                   |
| Wire connection cross-section, solid core, min.                                         | 0.5 Nm       |                                                                                         |                          |

## General

|                                         |        |                                         |               |
|-----------------------------------------|--------|-----------------------------------------|---------------|
| Rail                                    | TS 35  | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 14 | Wire connection cross section AWG, min. | AWG 24        |

## Rating data

|                                 |               |                                              |         |
|---------------------------------|---------------|----------------------------------------------|---------|
| Rated cross-section             | 2.5 Nm        | Rated voltage                                | 500 V   |
| Rated current                   | 20 A          | Current at maximum wires                     | 20 A    |
| Standards                       | IEC 60947-7-1 | Volume resistance according to IEC 60947-7-x | 1.33 °C |
| Rated impulse withstand voltage | 6 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) | 14 AWG                          |
| Conductor size Factory wiring min. (UR) | 26 AWG                          | Conductor size Field wiring max. (UR)   | 14 AWG                          |
| Conductor size Field wiring min. (UR)   | 26 AWG                          | Current size C (UR)                     | 15 A                            |
| UL_current_Print                        | 15 A                            | UL_voltage_Print                        | 300 V                           |
| UL_wire_max_Print                       | 14 A / 6 A / 10 A / 13 A / 15 A | UL_wire_min_Print                       | 26 A / 6 A / 10 A / 13 A / 15 A |
| Voltage size C (UR)                     | 300 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 |             |             |

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**Technical data****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="#">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="#">Declaration of Conformity all terminals</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                                                                                                                                                                           |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                                                                       |
| User Documentation                          | <a href="#">NTI ZDK-PE 2.5 V</a><br><a href="#">NTI ZDK 2.5 V DU-PE</a><br><a href="#">StorageConditionsTerminalBlocks</a>                                                                                                                                                                                                                                                     |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                       |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                |

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## Drawings

