

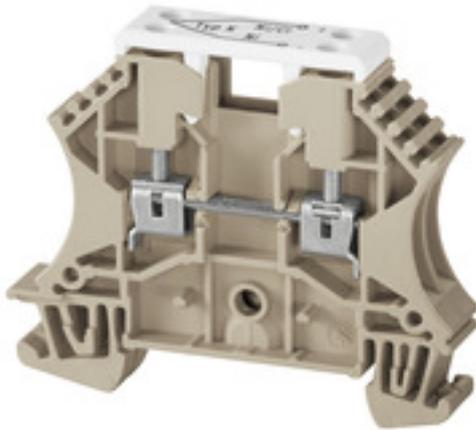
WDU 2.5/TC TYP K**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Thermocouple Terminal blocks are specially designed for the transmission of very small voltages in temperature measuring circuits. Special current bars ensure that no false signals are transmitted within the terminal block when temperature differences between the positive and negative paths exist. This high measuring precision is required, for example, in aircraft engine test rigs, complicated chemical processes and controllers.

General ordering data

| | |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Version | Thermocouple terminal, Screw connection, dark beige, 2.5 mm ² , 55 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid |
| Order No. | 1024100000 |
| Type | WDU 2.5/TC TYP K |
| GTIN (EAN) | 4008190140472 |
| Qty. | 25 pc(s). |

WDU 2.5/TC TYP K

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|----------------|------------|
| Depth | 50 mm | Depth (inches) | 1.969 inch |
| Depth including DIN rail | 50.5 mm | Height | 60 mm |
| Height (inches) | 2.362 inch | Width | 10.2 mm |
| Width (inches) | 0.402 inch | Net weight | 15.54 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) | DEMKO14ATEX1338U | Certificate No. (IECEX) | IECEXULD14.0005U |
| Max. voltage (ATEX) | 55 V | Current (ATEX) | 8 A |
| Wire cross section max. (ATEX) | 2.5 mm ² | Max. voltage (IECEX) | 55 V |
| Current (IECEX) | 8 A | Wire cross section max. (IECEX) | 2.5 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 | Screw connection, Thermocouple | End cover plate required | Yes |
| Number of potentials | 1 | Number of levels | 1 |
| Number of clamping points per level | 2 | 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

| | | | |
|--------------------------|-------|-----------------------------|---------|
| Explosion-tested version | No | Number of similar terminals | 1 |
| Open sides | right | Type of mounting | Snap-on |

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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 | Clamping screw | M 2.5 |
| Connection cross-section, stranded, max. | 2.5 mm ² | Connection cross-section, stranded, min. | 1.5 mm ² |
| Connection direction | on side | Gauge to IEC 60947-1 | A2 |
| Number of connections | 2 | Stripping length | 10 mm |
| Tightening torque, max. | 0.6 Nm | Tightening torque, min. | 0.4 Nm |
| Torque level with DMS electric screwdriver | 1 | Twin wire-end ferrules, max. | 1.5 mm ² |
| Twin wire-end ferrules, min. | 0.5 mm ² | Type of connection | Screw 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, min. | 0.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 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. | 2.5 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm ² |
| Wire connection cross-section, solid core, max. | 2.5 mm ² | Wire connection cross-section, solid core, min. | 0.5 mm ² |

Dimensions

| | |
|--------------|-------|
| TS 35 offset | 32 mm |
|--------------|-------|

General

| | | | |
|-----------------------------------------|--------|-----------------------------------------|--------------------------|
| Rail | TS 35 | Standards | IEC 60584, IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 26 |

Rating data

| | | | |
|---------------------------------------------|--------------------------|----------------------------------------------|---------|
| Rated cross-section | 2.5 mm ² | Rated voltage | 55 V |
| Standards | IEC 60584, 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 | Pollution severity | 3 |

UL rating data

| | | | |
|------------------------------|--------|------------------------------|--------|
| Certificate No. (UR) | E60693 | Voltage size C (UR) | 50 V |
| Wire cross section max. (UR) | 12 AWG | Wire cross section min. (UR) | 30 AWG |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000904 | ETIM 7.0 | EC000904 |
| ETIM 8.0 | EC000904 | ETIM 9.0 | EC000904 |
| ECLASS 9.0 | 27-14-11-42 | ECLASS 9.1 | 27-14-11-42 |
| ECLASS 10.0 | 27-14-11-42 | ECLASS 11.0 | 27-14-11-42 |
| ECLASS 12.0 | 27-14-11-42 | ECLASS 13.0 | 27-25-01-15 |
| ECLASS 14.0 | 27-25-01-15 | | |

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Catalogue status 26.11.2024 / We reserve the right to make technical changes.

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Technical data

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E60693 |
| Certificate No. (cURusEX) | E184763 |

Downloads

| | |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | Attestation of Conformity IECEX Certificate UKCA Ex Attestation of Conformity UKCA Ex Certificate CCC Ex Certificate CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| User Documentation | NTI WDU 2.5 TC StorageConditionsTerminalBlocks |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

Data sheet

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Drawings

