

WDU 2.5/TC TYP T**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. | 1024200000 |
| Type | WDU 2.5/TC TYP T |
| GTIN (EAN) | 4008190026400 |
| Qty. | 25 items |

WDU 2.5/TC TYP T

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|--------------------------|-------------|----------------|-------------|
| Depth | 50 mm | Depth (inches) | 1.9685 inch |
| Depth including DIN rail | 50.5 mm | Height | 60 mm |
| Height (inches) | 2.3622 inch | Width | 10.2 mm |
| Width (inches) | 0.4016 inch | Net weight | 16.86 g |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -60 °C...85 °C |
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |

Environmental Product Compliance

| | | | |
|--------------------------|-----------------------------|------------------|--|
| RoHS Compliance Status | Compliant without exemption | | |
| REACH SVHC | No SVHC above 0.1 wt% | | |
| Product Carbon Footprint | Cradle to gate | 0,222 kg CO2 eq. | |

Material data

| | | | |
|---------------------------|-------|--------|------------|
| Basic 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 |
| 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 |
| Mounting rail | TS 35 | N-function | No |
| PE function | No | PEN function | No |

WDU 2.5/TC TYP T

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Additional technical data

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

Conductors for clamping (rated connection)

| | | | |
|---|----------------------|---|----------------------|
| Gauge to IEC 60947-1 | A2 | Wire connection cross section AWG, max. | AWG 12 |
| Connection direction | on side | Tightening torque, max. | 0.6 Nm |
| Tightening torque, min. | 0.4 Nm | Stripping length | 10 mm |
| Type of connection | Screw connection | Number of connections | 2 |
| Clamping range, max. | 2.5 mm ² | Clamping range, min. | 0.13 mm ² |
| Clamping screw | M 2.5 | Blade size | 0.6 x 3.5 mm |
| Wire connection cross section AWG, min. | AWG 26 | 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. | 0.13 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. | 0.13 mm ² | Wire connection cross section, finely stranded, max. | 2.5 mm ² |
| Wire connection cross section, finely stranded, min. | 0.13 mm ² | Connection cross-section, stranded, max. | 2.5 mm ² |
| Connection cross-section, stranded, min. | 0.13 mm ² | Twin wire-end ferrules, max. | 1.5 mm ² |
| Twin wire-end ferrules, min. | 0.5 mm ² | Torque level with DMS electric screwdriver | 1 |
| Wire connection cross-section, solid core, max. | 2.5 mm ² | Wire connection cross-section, solid core, min. | 0.13 mm ² |

Dimensions

| | |
|--------------|-------|
| TS 35 offset | 66 mm |
|--------------|-------|

General

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

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

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

Classifications

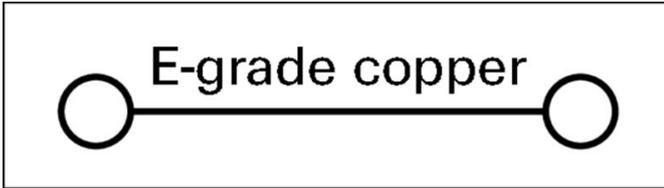
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000904 | ETIM 9.0 | EC000904 |
| ETIM 10.0 | EC000904 | ECLASS 14.0 | 27-25-01-15 |
| ECLASS 15.0 | 27-25-01-15 | | |

WDU 2.5/TC TYP T

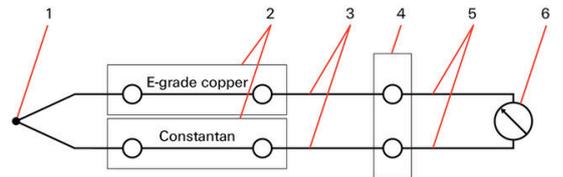
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



Typ T
Cu - CuNi



- 1. Thermocouple (sensor)
- 2. Thermocouple terminal blocks
- 3. Compensating conductor
- 4. Reference junction
- 5. Supply and return conductors
- 6. Measurement instrument



WDU 2.5/TC TYP T

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

End plates and partition plates

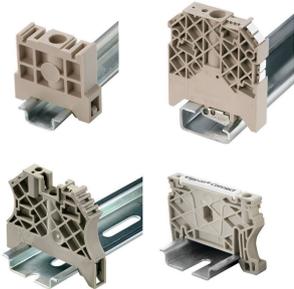


Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | WAP 2.5-10 | Version |
| Order No. | 1050000000 | End plate for terminals, dark beige, Height: 56 mm, Width: 1.5 mm, V-0, Wemid, Snap-on: No |
| GTIN (EAN) | 4008190103149 | |
| Qty. | 50 ST | |
| Type | WAP 16+35 WTW 2.5-10 | Version |
| Order No. | 1050100000 | End and partition plate for terminals, dark beige, Height: 56 mm, Width: 1.5 mm, V-0, Wemid |
| GTIN (EAN) | 4008190079901 | |
| Qty. | 20 ST | |

End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WEW 35/2 | Version |
| Order No. | 1061200000 | End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C |
| GTIN (EAN) | 4008190030230 | |
| Qty. | 50 ST | |

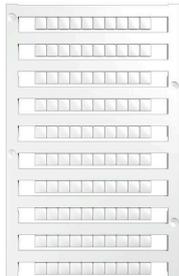
WDU 2.5/TC TYP T

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

Blank



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 NE WS | Version |
| Order No. | 1609801044 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111 | Weidmueller, white |
| Qty. | 1000 ST | |
| 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 ST | |

SchT group marker carrier



The SchT 5 S group tag carriers are clipped directly onto the TS 32 mounting rail (G-rail) or the TS 35 mounting rail (top-hat rail). It is therefore possible to label the terminal strip irrespective of the terminal and the type of terminal. SchT 5 and SchT 5 S are fitted with ESO 5, STR 5 protective strips.

The SchT 7 is a hinged group tag carrier for inlay tags which enables easy access to the clamping screw. The SchT 7 is fitted with ESO 7, STR 7 protective strips or DEK 5.

Inlay tags and protective strips can be found under "Accessories".

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SCHT 7 | Version |
| Order No. | 0517960000 | SCHT, Terminal marker, 39.3 x 8 mm, Pitch in mm (P): 7.00 |
| GTIN (EAN) | 4008190001742 | Weidmueller, white |
| Qty. | 20 ST | |

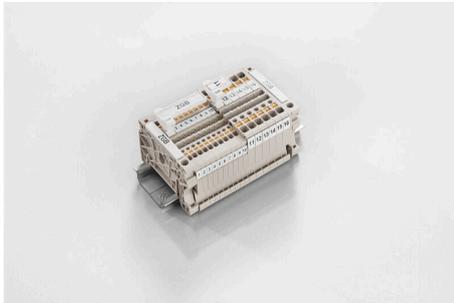
WDU 2.5/TC TYP T

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

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 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 ST | | |
| Type | ZGB 30 | Version | |
| Order No. | 1611930000 | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 | |
| GTIN (EAN) | 4008190002251 | Weidmueller, white | |
| Qty. | 20 ST | | |

Shield clamping saddle



With our wide range of KLBÜ shield connections, you can achieve flexible and self-adjusting shield contacting and ensure error-free plant operation.

General ordering data

| | | | |
|------------|----------------------------|----------------------|--|
| Type | LS 2.8 WDU2.5-10 | Version | |
| Order No. | 1056400000 | W-Series, Shield bus | |
| GTIN (EAN) | 4008190036454 | | |
| Qty. | 100 ST | | |

Marker holder



The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snapped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

WDU 2.5/TC TYP T

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

General ordering data

| | | | |
|------------|----------------------------|----------------------------|--|
| Type | BZT 1 WS 10/5 | Version | |
| Order No. | 1805490000 | Accessories, Marker holder | |
| GTIN (EAN) | 4032248270231 | | |
| Qty. | 100 ST | | |
| Type | BZT 1 ZA WS 10/5 | Version | |
| Order No. | 1805520000 | Accessories, Marker holder | |
| GTIN (EAN) | 4032248270248 | | |
| Qty. | 100 ST | | |

WS 12/5



WS/ DEK

MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | WS 12/5 MM WS | Version | |
| Order No. | 2007190000 | WS, Terminal marker, 12 x 5 mm, Weidmueller, white | |
| GTIN (EAN) | 4050118392036 | | |
| Qty. | 800 ST | | |