

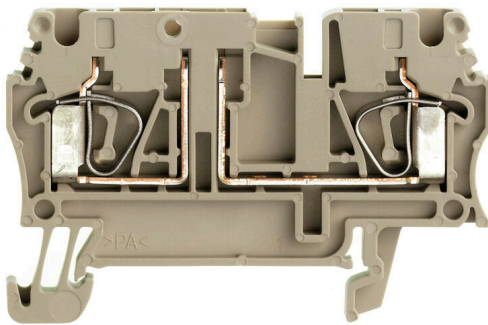
**ZTR 2.5/O.TNHE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

In some applications it makes sense to add a test point or a disconnect element to the feed through terminal for testing and safety purposes. With test disconnect terminals you measure electric circuits in the absence of voltage. While the disconnecting points clearance and creepage distance is not assessed in dimensional terms, the specified rated impulse voltage strength must be proven.

**General ordering data**

Version	Test-disconnect terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 500 V, 20 A, without, dark beige
Order No.	<a href="#">1831130000</a>
Type	ZTR 2.5/O.TNHE
GTIN (EAN)	4032248471515
Qty.	50 items

## ZTR 2.5/O.TNHE

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UR) E60693

## Dimensions and weights

Depth	38.5 mm	Depth (inches)	1.5157 inch
Depth including DIN rail	41 mm	Height	59.5 mm
Height (inches)	2.3425 inch	Width	5.1 mm
Width (inches)	0.2008 inch	Net weight	8.1 g

## Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-50 °C...75 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

## Environmental Product Compliance

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

## Material data

Basic material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

## System specifications

Version	Tension-clamp connection, for plug-in cross-connector, One end without connector	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

## Additional technical data

Open sides	right	Number of similar terminals	2
Installation advice	Direct mounting	Explosion-tested version	No
Type of mounting	Snap-on		

## CSA rating data

Wire cross section max. (CSA)	12 AWG	Voltage size C (CSA)	600 V
Current size C (CSA)	20 A	Certificate No. (CSA)	200039-1152892
Wire cross section min. (CSA)	30 AWG		

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## Technical data

## Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	2.5 mm <sup>2</sup>	Connection type, additional connection	Tension-clamp connection
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## Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3	Wire connection cross section AWG, max.	AWG 12
Connection direction	top	Stripping length	10 mm
Type of connection 2	Tension-clamp connection	Type of connection	Tension-clamp connection
Number of connections	2	Clamping range, max.	4 mm <sup>2</sup>
Clamping range, min.	0.05 mm <sup>2</sup>	Blade size	0.6 x 3.5 mm
Wire connection cross section AWG, min.	AWG 30	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 46228/4, min.	0.05 mm <sup>2</sup>	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 with wire-end ferrules DIN 46228/1, min.	0.05 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	4 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	0.05 mm <sup>2</sup>	Connection cross-section, stranded, max.	4 mm <sup>2</sup>
Connection cross-section, stranded, min.	0.05 mm <sup>2</sup>	Wire connection cross-section, solid core, max.	4 mm <sup>2</sup>
Wire connection cross-section, solid core, min.	0.05 mm <sup>2</sup>	Connection cross-section, finely stranded, min.	0.05 mm <sup>2</sup>

## General

Wire connection cross section AWG, max.	AWG 12	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 30	Standards	IEC 60947-7-1
Mounting rail	TS 35		

## Rating data

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	500 V
Rated DC voltage	500 V	Nominal current	20 A
Current at maximum wires	20 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	6 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Pollution severity	3

## UL rating data

Conductor size Factory wiring max. (UR)	12 AWG	Current size C (UR)	20 A
Voltage size C (UR)	600 V	Conductor size Factory wiring min. (UR)	30 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	30 AWG
Conductor size Field wiring max. (UR)	12 AWG		

## Classifications

ETIM 8.0	EC000902	ETIM 9.0	EC000902
ETIM 10.0	EC000902	ECLASS 14.0	27-25-01-09
ECLASS 15.0	27-25-01-09		

**Drawings**



## ZTR 2.5/O.TNHE

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## Accessories

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## Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

## General ordering data

Type	ZQV 2.5/2	Version
Order No.	<a href="#">1608860000</a>	Z-series, Cross-connector, 24 A
GTIN (EAN)	4008190123680	
Qty.	60 ST	
Type	ZQV 2.5/3	Version
Order No.	<a href="#">1608870000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190061630	
Qty.	60 ST	
Type	ZQV 2.5/4	Version
Order No.	<a href="#">1608880000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190082208	
Qty.	60 ST	
Type	ZQV 2.5/5	Version
Order No.	<a href="#">1608890000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190065713	
Qty.	20 ST	
Type	ZQV 2.5/6	Version
Order No.	<a href="#">1608900000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190149840	
Qty.	20 ST	
Type	ZQV 2.5/7	Version
Order No.	<a href="#">1608910000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190159665	
Qty.	20 ST	
Type	ZQV 2.5/8	Version
Order No.	<a href="#">1608920000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190061531	
Qty.	20 ST	
Type	ZQV 2.5/9	Version
Order No.	<a href="#">1608930000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190117009	
Qty.	20 ST	
Type	ZQV 2.5/10	Version
Order No.	<a href="#">1608940000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190099060	
Qty.	20 ST	
Type	ZQV 2.5/20	Version
Order No.	<a href="#">1908960000</a>	Z-series, Cross-connector, For the terminals, Number of poles: 20
GTIN (EAN)	4032248535293	
Qty.	20 ST	

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Type	ZQV 2.5/50	Version	
Order No.	<a href="#">1697540000</a>	Accessories, Cross-connector, 24 A	
GTIN (EAN)	4008190883256		
Qty.	10 ST		

### 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	ZAP/TW 1	Version	
Order No.	<a href="#">1608740000</a>	Z-series, Accessories, End plate, Partition plate	
GTIN (EAN)	4008190190859		
Qty.	50 ST		
Type	ZAP/TW 1 BL	Version	
Order No.	<a href="#">1608750000</a>	Z-series, Accessories, End plate, Partition plate	
GTIN (EAN)	4008190190866		
Qty.	50 ST		
Type	ZAP/TW 1 OR	Version	
Order No.	<a href="#">1608760000</a>	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190190873		
Qty.	50 ST		
Type	ZAP/TW 1 GN	Version	
Order No.	<a href="#">1683680000</a>	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190476489		
Qty.	50 ST		
Type	ZAP/TW 1 GR	Version	
Order No.	<a href="#">1683710000</a>	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190476793		
Qty.	50 ST		
Type	ZAP/TW 1 RT	Version	
Order No.	<a href="#">1683660000</a>	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190483111		
Qty.	50 ST		
Type	ZAP/TW 1 SW	Version	
Order No.	<a href="#">1683730000</a>	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190476885		
Qty.	50 ST		

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## Accessories

## 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	ZEW 35	Version	
Order No.	<a href="#">9540000000</a>	End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C	
GTIN (EAN)	4008190956264		
Qty.	20 ST		
Type	ZEW 35/2	Version	
Order No.	<a href="#">8630740000</a>	End bracket, dark beige, TS 35, V-2, Wemid, Width: 8 mm, 100 °C	
GTIN (EAN)	4032248348916		
Qty.	20 ST		

## Testadapter and testsockets



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

## General ordering data

Type	ZTA 1	Version	
Order No.	<a href="#">1609040000</a>	Accessories, Test adapter, 9 A	
GTIN (EAN)	4008190196851		
Qty.	25 ST		
Type	ZTA 1/ZA	Version	
Order No.	<a href="#">1609050000</a>	Accessories, Test adapter, 9 A	
GTIN (EAN)	4008190206543		
Qty.	25 ST		
Type	PS 2.3 RT	Version	
Order No.	<a href="#">0180400000</a>	Test adapter (terminal), 230 V, 20 mA	
GTIN (EAN)	4008190060121		
Qty.	20 ST		

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## Accessories

## Fuse holder



The fuse holder SIHA quickly turns a disconnect terminal into a fuse terminal: simply remove the disconnect lever and attach the fuse unit.

## General ordering data

Type	SIHA 3/G20/LD 10-36V	Version
Order No.	<a href="#">7921570000</a>	Fuse holder for feed-through modular terminal, black, 2.31 mA,
GTIN (EAN)	4032248322503	pluggable, V-O, Wemid
Qty.	25 ST	
Type	SIHA 3/G20/LD 35-70V	Version
Order No.	<a href="#">7921580000</a>	Fuse holder for feed-through modular terminal, black, 2.31 mA,
GTIN (EAN)	4032248322619	pluggable, V-O, Wemid
Qty.	25 ST	
Type	SIHA 3/G20/LD 60-150V	Version
Order No.	<a href="#">7921590000</a>	Fuse holder for feed-through modular terminal, black, 2.31 mA,
GTIN (EAN)	4032248322626	pluggable, V-O, Wemid
Qty.	25 ST	
Type	SIHA 3/G20/LD 140-250V	Version
Order No.	<a href="#">7921600000</a>	Fuse holder for feed-through modular terminal, black, 2.31 mA,
GTIN (EAN)	4032248322633	pluggable, V-O, Wemid
Qty.	25 ST	

## Component plugs



The component plug is used to integrate an electrical component in a disconnect terminal block. After soldering the electronic component, the plug can be integrated into the disconnection area of our disconnect terminal blocks and thus changes the disconnect terminal block into a modular terminal block with integrated electronic component.

## General ordering data

Type	BEST	Version
Order No.	<a href="#">1833100000</a>	Accessories, Component plug
GTIN (EAN)	4032248501014	
Qty.	50 ST	
Type	BEST/D	Version
Order No.	<a href="#">1878560000</a>	Accessories, Component plug, 1 A
GTIN (EAN)	4032248471492	
Qty.	50 ST	

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## Accessories

Type	BEST/DRBR	Version	
Order No.	<a href="#">1878570000</a>	Accessories, Component plug, 22 A	
GTIN (EAN)	4032248471508		
Qty.	50 ST		

## Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

## General ordering data

Type	TNST	Version	
Order No.	<a href="#">1833090000</a>	Accessories, Disconnect plug, 20 A	
GTIN (EAN)	4032248471485		
Qty.	50 ST		

## Reducing sleeves



The use of reducing sleeves simplifies the connection of conductors with smaller cross-sections. Conductors can be reliably inserted into the clamping point without the strands fraying. The use of a reducing sleeve centres the conductor in the entry point.

## General ordering data

Type	ZRH 2.5/1 WS	Version	
Order No.	<a href="#">1614300000</a>	Z-series, Reducing sleeve	
GTIN (EAN)	4008190206789		
Qty.	1000 ST		
Type	ZRH 2.5/2 GR/V0	Version	
Order No.	<a href="#">1614290000</a>	Z-series, Reducing sleeve	
GTIN (EAN)	4008190072476		
Qty.	1000 ST		
Type	ZRH 2.5/3	Version	
Order No.	<a href="#">1614280000</a>	Z-series, Reducing sleeve	
GTIN (EAN)	4008190206796		
Qty.	1000 ST		

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## Accessories

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## 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.	<a href="#">1609801044</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1000 ST	
Type	WS 10/5 M MC NE WS	Version
Order No.	<a href="#">1792000000</a>	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4032248223862	Allen-Bradley, white
Qty.	720 ST	
Type	WS 10/5 MC NE WS	Version
Order No.	<a href="#">1635000000</a>	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 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.

## General ordering data

Type	BZT 1 WS 10/5	Version
Order No.	<a href="#">1805490000</a>	Accessories, Marker holder
GTIN (EAN)	4032248270231	
Qty.	100 ST	
Type	BZT 1 ZA WS 10/5	Version
Order No.	<a href="#">1805520000</a>	Accessories, Marker holder
GTIN (EAN)	4032248270248	
Qty.	100 ST	

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**Accessories****Slotted screwdriver**

VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

**General ordering data**

Type	SDIS SLIM 0.6X3.5X100	Version	
Order No.	<a href="#">2749610000</a>	Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade	
GTIN (EAN)	4050118896350	thickness (A): 0.6 mm	
Qty.	1 ST		