

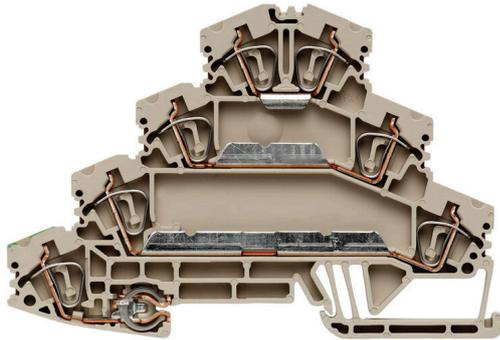
**ZMAK 2.5****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

**General ordering data**

Version	Motor-connection terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 400 V, dark beige
Order No.	<a href="#">1768000000</a>
Type	ZMAK 2.5
GTIN (EAN)	4032248117376
Qty.	25 items

## ZMAK 2.5

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UR) E60693

## Dimensions and weights

Depth	69.5 mm	Depth (inches)	2.7362 inch
Depth including DIN rail	70 mm	Height	102 mm
Height (inches)	4.0157 inch	Width	5.1 mm
Width (inches)	0.2008 inch	Net weight	22.38 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, With PE connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	4
Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	Yes
Mounting rail	TS 35		

## Additional technical data

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

## CSA rating data

Wire cross section max. (CSA)	12 AWG	Certificate No. (CSA)	200039-1152892
Voltage size D (CSA)	300 V	Current size D (CSA)	25 A
Wire cross section min. (CSA)	26 AWG		

## Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3
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### Technical data

Wire connection cross section AWG, max.	AWG 12			
Connection direction	top			
Stripping length	10 mm			
Type of connection	Tension-clamp connection			
Number of connections	7			
Clamping range, max.	4 mm <sup>2</sup>			
Clamping range, min.	0.13 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.	0.13 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.	0.13 mm <sup>2</sup>			
Wire connection cross section, finely stranded, max.	4 mm <sup>2</sup>			
Wire connection cross section, finely stranded, min.	0.13 mm <sup>2</sup>			
Connection cross-section, stranded, max.	4 mm <sup>2</sup>			
Connection cross-section, stranded, min.	0.13 mm <sup>2</sup>			
Wire connection cross-section, solid core, max.	4 mm <sup>2</sup>			
Wire connection cross-section, solid core, min.	0.13 mm <sup>2</sup>			
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	min.	6 mm	
		max.	10 mm	
	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>	
		Tube length	min.	6 mm
			max.	10 mm
		Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	Tube length		min.	6 mm
				max.
	Cross-section for conductor connection		nominal	1 mm <sup>2</sup>
		Tube length	min.	8 mm
				max.
		Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	Tube length		nominal	8 mm
		Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>
Tube length for wire-end ferrule without plastic collar DIN 46228/1	Tube length		nominal	10 mm
	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>	
		Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>	
		Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1 mm <sup>2</sup>	
		Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>	
		Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>	

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## Technical data

## 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 (-7-2)
Mounting rail	TS 35		

## Rating data

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	400 V
Rated DC voltage	400 V	Nominal current	24 A
Current at maximum wires	31 A	Standards	IEC 60947-7-1 (-7-2)
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	Surge voltage category	III
Pollution severity	3		

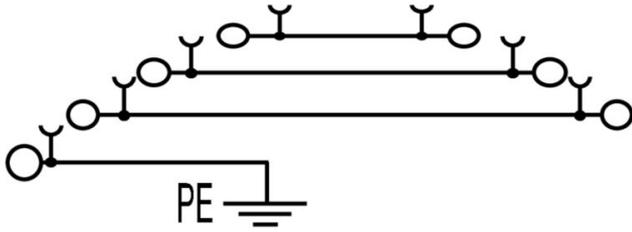
## UL rating data

Voltage size B (UR)	300 V	Current size B (UR)	25 A
Conductor size Factory wiring max. (UR)	12 AWG	Current size D (UR)	10 A
Conductor size Factory wiring min. (UR)	26 AWG	Certificate No. (UR)	E60693
Conductor size Field wiring min. (UR)	26 AWG	Voltage size D (UR)	300 V
Conductor size Field wiring max. (UR)	12 AWG		

## Classifications

ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-02
ECLASS 15.0	27-25-01-02		

**Drawings**



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## Accessories

## End plates and partition plates

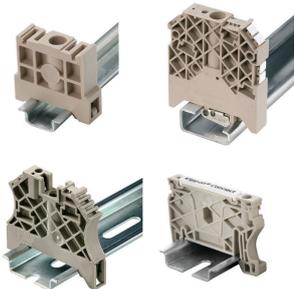


Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row 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	ZAP ZMAK2.5	Version	
Order No.	<a href="#">1768010000</a>	Version	Z-series, End plate
GTIN (EAN)	4032248115334		
Qty.	10 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	ZEW 35	Version	
Order No.	<a href="#">9540000000</a>	Version	End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C
GTIN (EAN)	4008190956264		
Qty.	20 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 1.5H/1	Version	
Order No.	<a href="#">1678810000</a>	Version	Z-series, Reducing sleeve
GTIN (EAN)	4008190487324		
Qty.	1000 ST		

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## Accessories

Type	ZRH 1.5H/2	Version	
Order No.	<a href="#">1678800000</a>	Z-series, Reducing sleeve	
GTIN (EAN)	4008190487317		
Qty.	1000 ST		

## Testadapter and testsockets



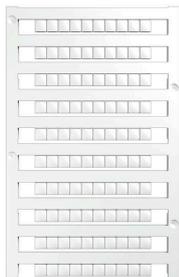
Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

## 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		

## 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		

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## Accessories

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	ZS 15/5 MC NE WS	Version
Order No.	<a href="#">1646630000</a>	ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190401214	Allen-Bradley, white
Qty.	480 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	

## 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	