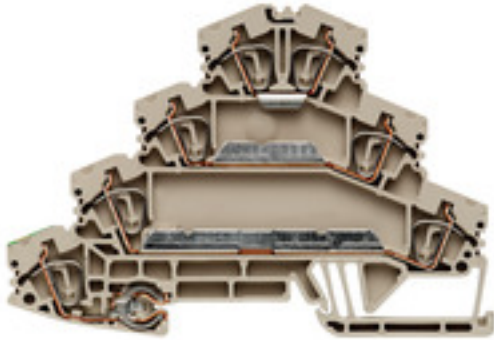


**Z-series  
ZMAK 2.5**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

**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**

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

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**Technical data****Dimensions and weights**

Width	5.1 mm	Width (inches)	0.201 inch
Height	102 mm	Height (inches)	4.016 inch
Depth	69.5 mm	Depth (inches)	2.736 inch
Depth including DIN rail	70 mm	Net weight	22.38 g

**Temperatures**

Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C
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**Material data**

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 levels	4	No. 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**

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

**CSA rating data**

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

**Conductors for clamping (rated connection)**

Blade size	0.6 x 3.5 mm	Clamping range, rated connection, max.	4 mm <sup>2</sup>
Clamping range, rated connection, min.	0.13 mm <sup>2</sup>	Connection direction	top
Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm <sup>2</sup>	Gauge to IEC 60947-1	A3
Number of connections	7	Stripping length	10 mm
Type of connection	Tension clamp connection	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	2.5 mm <sup>2</sup>
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	4 mm <sup>2</sup>
Wire connection cross section, solid core max. rated connection	4 mm <sup>2</sup>	Wire connection cross section, solid core, min. rated connection	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>

Creation date January 1, 2018 6:52:45 AM CET

## Z-series ZMAK 2.5

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## Technical data

### Rating data

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	400 V
Rated current	24 A	Current at maximum wires	31 A
Standards	IEC 60947-7-1 (-7-2)	Volume resistance according to IEC 60947-7-x	3.99 mΩ
Rated impulse withstand voltage	6 kV	Pollution severity	3
Surge voltage category	III		

### UL rating data

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

### Classifications

ETIM 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	EC000897
UNSPSC	30-21-18-01	eClass 5.1	27-14-11-18
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20
eClass 8.1	27-14-11-28	eClass 9.0	27-14-11-28
eClass 9.1	27-14-11-20		

### Approvals

Approvals



ROHS Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">DE_PT1102_20160418_1367_ISSUE01.pdf</a>
Brochure/Catalogue	<a href="#">CAT 1 TERM 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>

### Safety note

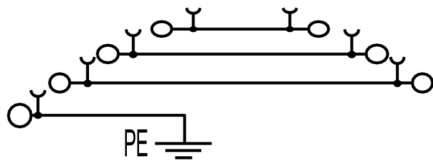
Safety notice	<a href="#">Safety Information</a>
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**Data sheet**

**Z-series  
ZMAK 2.5**

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**Drawings**



## Z-series ZMAK 2.5

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# Accessories

## End plates



### 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

Type	Order No.	Version	GTIN (EAN)	Qty.
ZAP ZMAK2.5	<a href="#">1768010000</a>	Z-series, End plate	4032248115334	10 pc(s).

## Blank



ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.

- Hinged marker area
- Can be fitted in strips or individually
- Markers in proven MultiCard format

### General ordering data

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

## Tools



Tools for removing the sheathing of uncut power cables and outgoing feeders, plus screwdrivers for installing FieldPower components.

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SDS	<a href="#">9008330000</a>	Screwdriver, Blade width	4032248056286	1 pc(s).
0.6X3.5X100		(B): 3.5 mm, Blade length:		

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## Accessories

100 mm, Blade thickness  
 (A): 0.6 mm

### 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.

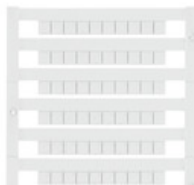
The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.

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

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZGB 15	<a href="#">1636530000</a>	Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00 White	4008190297053	20 pc(s).
ZGB 30	<a href="#">1611930000</a>	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 White	4008190002251	20 pc(s).

### 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

#### General ordering data

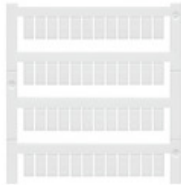
Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC NE WS	<a href="#">1609801044</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, White	4008190397111	1,000 pc(s).

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# Accessories

## Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 10/5 M	<a href="#">1792000000</a>	WS, Terminal marker, 10 x	4032248223862	720 pc(s).
MC NE WS		5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White		

## End brackets



### 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

Type	Order No.	Version	GTIN (EAN)	Qty.
ZEW 35	<a href="#">9540000000</a>	Z-series, End bracket	4008190956264	20 pc(s).

## Reduction Sleeves



### 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

Type	Order No.	Version	GTIN (EAN)	Qty.
ZRH 1.5H/2	<a href="#">1678800000</a>	Z-series, Reducing sleeve	4008190487317	1,000 pc(s).

**Data sheet**

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**Accessories**

ZRH 1.5H/1 [1678810000](#)

Z-series, Reducing sleeve 4008190487324 1,000 pc(s).

**Test adapter**



**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**

Type	Order No.	Version	GTIN (EAN)	Qty.
ZTA 1/ZA	<a href="#">1609050000</a>	Accessories, Test adapter, 9 A	4008190206543	25 pc(s).
ZTA 1	<a href="#">1609040000</a>	Accessories, Test adapter, 9 A	400819019685	1 25 pc(s).