



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Product image**







A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

### **General ordering data**

Version	Double-tier terminal, PE terminal, Tension-clamp connection, 2.5 mm <sup>2</sup> , 300 A (2.5 mm <sup>2</sup> ), Green/yellow
Order No.	<u>1690000000</u>
Туре	ZDK 2.5PE
GTIN (EAN)	4008190875466
Qty.	50 ST



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# **Technical data**

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Approvals



ROHS	Conform	
UL File Number Search	<u>UL Website</u>	
Certificate No. (UR)	E60693	

### **Dimensions and weights**

Depth	53 mm	Depth (inches)	2.0866 inch
Depth including DIN rail	54 mm	Height	79.5 mm
Height (inches)	3.1299 inch	Width	5.1 mm
Width (inches)	0.2008 inch	Net weight	14.8 g

### **Temperatures**

Storage temperature	-25 °C55 °C	Ambient temperature	-5 °C40 °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%	
Product Carbon Footprint	Cradle to gate	0.199 kg CO2 eq.

## **Material data**

Material	Wemid	Colour	Green/yellow
UL 94 flammability rating	V-0		

### Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO16ATEX1729U	Certificate No. (IECEX)	IECEXULD16.0025U
Wire cross section max. (ATEX)	2.5 mm <sup>2</sup>	Wire cross section max. (IECEX)	2.5 mm²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

### **System specifications**

Version	Tension-clamp connection, With PE connection, One end without connector	End cover plate required	Yes
Number of levels	2	Number of clamping points per level	2
Levels cross-connected internally	Yes	PE connection	Yes
Rail	TS 35	PE function	Yes
PEN function	No		

### **Additional technical data**

Open sides	right	Number of similar terminals	1
Installation advice	Direct mounting	Explosion-tested version	Yes

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# **Technical data**

Type of mounting	Snap-on
CSA rating data	

Conductor size Factory wiring min.	(CSA)26 AWG	Conductor size Field wiring max. (CSA)	12 AWG
Certificate No. (CSA)	80053378-200039	Conductor size Factory wiring max. (CSA)	12 AWG
Conductor size Field wiring min. (C	SA) 26 AWG		

# **Conductors for clamping (additional connection)**

Connection type, additional connection Tension-clamp connection

Conductors for clamping (rated connection)			
Gauge to IEC 60947-1	A2		
Wire connection cross section AWG, max.	AWG 14		
Connection direction	top		
Stripping length	10 mm		
ype of connection	Tension-clamp connection		
lumber of connections	4		
Clamping range, max.	2.5 mm²		
Clamping range, min.	0.05 mm <sup>2</sup>		
Blade size	0.6 x 3.5 mm		
Vire connection cross section AWG, nin.	AWG 24		
Vire connection cross-section, finely tranded with wire-end ferrules DIN 16228/4, max.	1.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 16228/4, min.	0.5 mm <sup>2</sup>		
Vire connection cross-section, finely tranded with wire-end ferrules DIN 16228/1, max.	2.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm <sup>2</sup>		
Vire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>		
Vire connection cross section, finely tranded, min.	0.5 mm <sup>2</sup>		
Connection cross-section, stranded, nax.	2.5 mm <sup>2</sup>		
Vire connection cross-section, solid core, max.	2.5 mm <sup>2</sup>		
Vire connection cross-section, solid core, min.	0.5 mm <sup>2</sup>		
ube length for wire-end ferrule with	Tube length	min.	6 mm
olastic collar DIN 46228/4		max.	10 mm
	Cross-section for conductor connection	nominal	0.5 mm²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	0.75 mm²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1 mm²
	Tube length	min.	8 mm
		max.	12 mm



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# **Technical data**

	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>
Tube length for wire-end ferrule without	Tube length	nominal	10 mm
plastic collar DIN 46228/1	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	min.	10 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	Tube length	min.	10 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>

### General

Wire connection cross section AWG,	AWG 14	Installation advice	Direct mounting
max.			
Wire connection cross section AWG,	AWG 24	Standards	IEC 60947-7-2
min.			
Rail	TS 35		

# PE rating data

Rated short-time current	300 A (2.5 mm²)	PEN function	No	
	<u> </u>		<u> </u>	

# **Rating data**

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage to adjoining terminal	500 V
Rated DC voltage	500 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage to adjacent terminal	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	) 14 AWG	Conductor size Factory wiring min. (UR)	26 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	26 AWG
Conductor size Field wiring max. (UR)	14 AWG		

# Classifications

ETIM 7.0	EC000901	ETIM 8.0	EC000901
ETIM 9.0	EC000901	ETIM 10.0	EC000901
ECLASS 11.0	27-14-11-41	ECLASS 12.0	27-14-11-41
ECLASS 13.0	27-25-01-04	ECLASS 14.0	27-25-01-04
ECLASS 15.0	27-25-01-04		



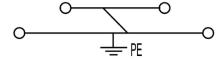


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# **Drawings**





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# Accessories

#### 2.5 mm<sup>2</sup>

2.5

 $mm^2$ 

End plates are fitted to the open side of the last modular terminal before the end bracket. The use of an end plate ensures the function of the modular terminal and the specified rated voltage. It guarantees protection against contact with live parts and makes the final terminal finger-proof.

### **General ordering data**

Туре	ZAP/TW ZDK2.5	Version
Order No.	<u>1674730000</u>	Z-series, End plate, Partition plate
GTIN (EAN)	4008190444891	
Qty.	20 ST	
Туре	ZAP/TW ZDK2.5 BL	Version
Order No.	<u>1748800000</u>	Z-series, End plate, Partition plate
GTIN (EAN)	4008190997519	
Qty.	20 ST	
Qty.	20 ST ZAP/TW ZDK2.5 OR	Version
		Version Z-series, End plate, Partition plate
Туре	ZAP/TW ZDK2.5 OR	

### **SAK-Series**



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**

Туре	EW 35	Version
Order No.	0383560000	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C
GTIN (EAN)	4008190181314	
Qty.	50 ST	
Туре	EW 35 GR 7032	Version
Order No.	0383530000	End bracket, grey, TS 35, V-0, Wemid, Width: 9 mm, 120 °C
GTIN (EAN)	4008190027322	
Qty.	50 ST	
Туре	EW 35/SCHA/M3	Version
Order No.	0258660000	End bracket, beige, TS 35, V-2, Wemid, Width: 16.5 mm, 100 °C
GTIN (EAN)	4008190033477	
Qty.	20 ST	



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# **Accessories**

#### W-Series



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 35/1	Version
Order No.	<u>1059000000</u>	End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C
GTIN (EAN)	4008190172282	
Qty.	50 ST	
Туре	WEW 35/2	Version
Type Order No.	WEW 35/2 1061200000	Version End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C
	'	

# **Z-Series**

Z Series 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**

Туре	ZEW 35	Version
Order No.	9540000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C
GTIN (EAN)	4008190956264	
Qty.	20 ST	
Туре	ZEW 35/2	Version
Order No.	<u>8630740000</u>	End bracket, dark beige, TS 35, V-2, Wemid, Width: 8 mm, 100 °C
GTIN (EAN)	4032248348916	
Qty.	20 ST	
Туре	ZTA 4	Version
Type Order No.	ZTA 4 1688110000	Version Accessories, Test adapter, 11 A
Order No.	<u>1688110000</u>	
Order No. GTIN (EAN)	1688110000 4008190855666	
Order No. GTIN (EAN) Qty.	1688110000 4008190855666 25 ST	Accessories, Test adapter, 11 A
Order No. GTIN (EAN) Oty. Type	1688110000 4008190855666 25 ST ZRH 1.5H/1	Accessories, Test adapter, 11 A  Version

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# **Data sheet**

# **ZDK 2.5PE**



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# Accessories

ZRH 1.5H/2 Type 1678800000 Order No. GTIN (EAN) 4008190487317 Qty. 1000 ST

Version

Z-series, Reducing sleeve

### **STR** transparent strips



### **General ordering data**

STR 7 F.SCHT 7 Туре Order No. 0515300000 GTIN (EAN) 4008190182175 20 ST

Version

Terminal markers, Protective cap, 27 x 6.3 mm, Transparent

### **Z-Series**



The additional connection enables a separate voltage tap. This can be used, for example, for the emergency power supply before the main switch or simply as an additional connection within the application.

# **General ordering data**

ZBS1 F.D SET Туре Order No. 1764550000 GTIN (EAN) 4032248113644 10 ST

Accessories, Component plug, 6 A

Qty.



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# **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**

Туре	ZGB 15	Version
Order No.	<u>1636530000</u>	Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190297053	Weidmueller, white
Qty.	20 ST	
Туре	ZGB 30	Version
Order No.	<u>1611930000</u>	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190002251	Weidmueller, white
Qty.	20 ST	
Туре	ZGB 30/3.5	Version
Order No.	<u>1778290000</u>	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 3.50
GTIN (EAN)	4032248161065	white
Qty.	20 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.

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### **General ordering data**

Туре	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	
Туре	ZS 10/5 MC NE WS	Version
Type Order No.	ZS 10/5 MC NE WS 1610000000	Version ZS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,



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# Accessories

Туре WS 10/5 M MC NE WS Order No.

GTIN (EAN) 4032248223862

Qty. 720 ST

1792000000

WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,

Allen-Bradley, white

#### 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 snaped 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**

Туре	BZT 1 WS 10/5
Order No.	1805490000
GTIN (EAN)	4032248270231
Otv	100 ST

Version

Accessories, Marker holder

BZT 1 ZA WS 10/5 Type 1805520000 Order No.

4032248270248 GTIN (EAN)

Qty.

100 ST

Version

Accessories, Marker holder

### **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-vanadiummolybdenum steel, gun-metal finish.

# **General ordering data**

Туре SDIS SLIM 0.6X3.5X100 Order No. 2749610000 GTIN (EAN) 4050118896350 1 ST Qty.

Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade

thickness (A): 0.6 mm

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