



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	$ \begin{array}{l} \text{Feed-through terminal, Tension-clamp connection,} \\ \text{2.5 } \text{mm}^2, 800 \text{ V}, 24 \text{ A, dark beige} \end{array} $
Order No.	<u>1772060000</u>
Туре	ZDU 2.5-2
GTIN (EAN)	4032248128709
Qty.	100 ST



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### **Technical data**

#### **Approvals**

Approvals



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

#### **Dimensions and weights**

Depth	43 mm	Depth (inches)	1.6929 inch
Depth including DIN rail	44 mm	Height	50.5 mm
Height (inches)	1.9882 inch	Width	5.1 mm
Width (inches)	0.2008 inch	Net weight	5.42 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	0.057 kg CO2 eq.

#### **Material data**

Material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

#### Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO16ATEX1808U	Certificate No. (IECEX)	IECEXULD16.0036U
Max. voltage (ATEX)	550 V	Current (ATEX)	21 A
Wire cross section max. (ATEX)	4 mm²	Max. voltage (IECEX)	550 V
Current (IECEX)	21 A	Wire cross section max. (IECEX)	4 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, 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
Rail	TS 35		

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## **Technical data**

Δddit	ional	techr	nical	data

Open sides	right	Number of similar terminals	1	
Explosion-tested version	Yes	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)	24 A	Certificate No. (CSA)	200039-1194786
Wire cross section min. (CSA)	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,	AWG 12		
max.			
Connection direction	Inclined / angled		
Stripping length	10 mm		
Type of connection	Tension-clamp connection		
Number of connections	2		
Clamping range, max.	2.5 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,	AWG 26		
min.			
Wire connection cross-section, finely	1.5 mm <sup>2</sup>		
stranded with wire-end ferrules DIN			
46228/4, max.	0.5		
Wire connection cross-section, finely stranded with wire-end ferrules DIN	0.5 mm <sup>2</sup>		
46228/4, min.			
Wire connection cross-section, finely	2.5 mm <sup>2</sup>		
stranded with wire-end ferrules DIN	2.0 11111		
46228/1, max.			
Wire connection cross-section, finely	0.5 mm²		
stranded with wire-end ferrules DIN			
46228/1, min.			
Wire connection cross section, finely	2.5 mm <sup>2</sup>		
stranded, max.			
Wire connection cross section, finely	0.5 mm <sup>2</sup>		
stranded, min.	0.5		
Connection cross-section, stranded, max.	0.5 mm <sup>2</sup>		
Connection cross-section, stranded, m	in 2.5 mm²		
Wire connection cross-section, stranded, in	2.5 mm <sup>2</sup>		
core. max.	2.5 111111-		
Wire connection cross-section, solid	0.5 mm <sup>2</sup>		
core, min.	0.0 11111		
Tube length for wire-end ferrule with	Tube length	min.	6 mm
plastic collar DIN 46228/4	9	max.	10 mm
· · · · · · · · · · · · · · · · · · ·	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>
	Tube length	min.	6 mm
	1 and longth	max.	10 mm
	Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	Tube length	min.	6 mm
	Tube leftytti		
		max.	10 mm

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## **Technical data**

	Cross-section for conductor connection	nominal	1 mm²
	Tube length	min.	8 mm
		max.	10 mm
	Cross-section for conductor connection	nominal	1.5 mm²
	Tube length	nominal	8 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 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1.5 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>

#### **Dimensions**

TS 35 offset	25.5 mm

#### General

Wire connection cross section AWG,	AWG 12	Wire connection cross section AWG,	AWG 26
max.		min.	
Standards	IEC 60947-7-1	Rail	TS 35

#### **Rating data**

Rated cross-section	2.5 mm <sup>2</sup>	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	24 A
Current at maximum wires	24 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Pollution severity	3

### **UL** rating data

Conductor size Factory wiring max. (cURus)	12 AWG	Certificate No. (cURus)	E60693
Conductor size Field wiring min. (cUR	us) 26 AWG	Conductor size Factory wiring min. (cURus)	26 AWG
Voltage size C (cURus)	600 V	Current size C (cURus)	24 A
Conductor size Field wiring max. (cUF	Rus)12 AWG		

#### Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 9.0	27-14-11-20
ECLASS 9.1	27-14-11-20	ECLASS 10.0	27-14-11-20
ECLASS 11.0	27-14-11-20	ECLASS 12.0	27-14-11-20
ECLASS 13.0	27-25-01-01	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

**Data sheet** 

**ZDU 2.5-2** 

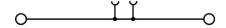


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### Accessories

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

2.5

mm<sup>2</sup>

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

#### General ordering data

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

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### **Accessories**

Туре	ZQV 2.5/50	Version
Order No.	<u>1697540000</u>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190883256	
Qty.	10 ST	
Туре	ZAP/TW7	Version
Order No.	<u>1706110000</u>	Z-series, End plate, Partition plate
GTIN (EAN)	4008190915452	
Qty.	50 ST	
Туре	ZAP/TW7 BL	Version
Type Order No.	ZAP/TW7 BL 1706120000	Version Z-series, End plate, Partition plate
Order No.	1706120000	
Order No. GTIN (EAN)	1706120000 4008190915469	
Order No. GTIN (EAN) Qty.	1706120000 4008190915469 50 ST	Z-series, End plate, Partition plate
Order No. GTIN (EAN) Oty. Type	1706120000 4008190915469 50 ST ZAP/TW7 OR	Z-series, End plate, Partition plate  Version

#### **SAK-Series**

# 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.

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#### **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



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#### **General ordering data**

Туре	WEW 35/1	Version
Order No.	1059000000	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

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#### **Accessories**

Type	ZRH 1.5H/2	Version
Order No.	<u>1678800000</u>	Z-series, Reducing sleeve
GTIN (EAN)	4008190487317	
Qty.	1000 ST	
Туре	ZAD 1/4-2 GE	Version
Type Order No.	ZAD 1/4-2 GE 1764560000	Version Z-series, Cover
	· ·	

#### **Custom printing**



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**

Order No. <u>1609810000</u> Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN) 4008190456597 Weidmueller, To customer specification	
Qty. 200 ST	

#### **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 PrintJet CONNECT oder/or Plotter is possible.

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

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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### **Accessories**

#### **General ordering data**

Туре	WS 12/5 MC NE WS	Version
Order No.	<u>1609860000</u>	WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190203481	Allen-Bradley, white
Qty.	720 ST	
Туре	ZS 15/5 MC NE WS	Version
Type Order No.	ZS 15/5 MC NE WS 1646630000	Version ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
	,	

#### **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
Type Order No.	ZGB 30 1611930000	Version Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00

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

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### Accessories

#### 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
Order No. 2007190000
GTIN (EAN) 4050118392036
Qty. 800 ST

Version

WS, Terminal marker, 12 x 5 mm, Weidmueller, white

#### 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
Order No. 2749610000
GTIN (EAN) 4050118896350
Oty. 1 ST

Version

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

thickness (A): 0.6 mm

### **Data sheet**

#### **ZDU 2.5-2**



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### Accessories

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

Qty.

2.5

mm<sup>2</sup>

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

Number of poles: 2

#### **General ordering data**

60 ST

Туре	ZQV 2.5/2 R1	Version
Order No.	2714780000	Z-series, Cross-connector, For the terminals,
GTIN (EAN)	4050118765014	