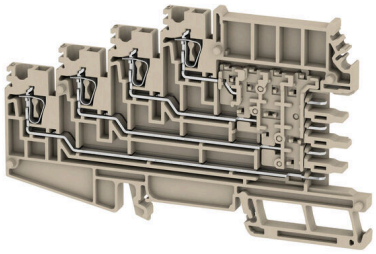
Data sheet

ZRV 2.5/1

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



Some applications demand for a pluggable, modular solution to be more flexible or to facilitate the installation. Where complete functional units have to be prefabricated or replaced, modular and flexible connection systems are required. Our pluggable terminal blocks can be quickly assembled and are completely factory tested.

General ordering data

Version	Z-series, Feed-through terminal, Multi-tier modular terminal, Rated cross-section: 2.5 mm², Tension-clamp connection
Order No.	1906960000
Type	ZRV 2.5/1
GTIN (EAN)	4032248530717
Qty.	50 items

Data sheet

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	69.5 mm	Depth (inches)	2.7362 inch
Depth including DIN rail	70 mm	Height	115 mm
Height (inches)	4.5275 inch	Width	5.2 mm
Width (inches)	0.2047 inch	Net weight	22.86 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °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	4 tension-clamp connections - 4 plug-in connections, for plug-in cross-connector, One end without connector	End cover plate required	Yes
Number of potentials	4	Number of levels	4
Number of clamping points per level	2	Levels cross-connected internally	No
PE connection	No	Mounting rail	TS 35

Additional technical data

Explosion-tested version	No	Type of mounting	Snap-on

Conductors for clamping (additional connection)

Connection type, additional connection	Tension-clamp connection

Conductors for clamping (rated connection)

Wire connection cross section AWG, max.	AWG 12
Connection direction	top
Stripping length	10 mm

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Technical data

Type of connection 2	Tension-clamp connection		
Type of connection	Tension-clamp connection		
Number of connections	8		
Clamping range, max.	4 mm²		
Clamping range, min.	0.5 mm²		
Blade size	0.6 x 3.5 mm		
Wire connection cross section AWG, min.	AWG 26		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm²		
Wire connection cross section, finely stranded, max.	2.5 mm²		
Wire connection cross section, finely stranded, min.	0.5 mm²		
Connection cross-section, stranded, max.	4 mm²		
Connection cross-section, stranded, min.	0.5 mm²		
Wire connection cross-section, solid core, max.	4 mm²		
Wire connection cross-section, solid core, min.	0.5 mm²		
Connection cross-section, finely stranded, min.	0.5 mm²		
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 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
	Cross-section for conductor connection	nominal	1.5 mm²
	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	2.5 mm²
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 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	0.75 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1 mm²
	Tube length	min.	10 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1.5 mm²
	Tube length	min.	10 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	2.5 mm²

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Technical data

Dimensions

TS 35 offset	59 mm

General

Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 26
Standards	IEC 61984, In accordance with IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	2.5 mm²	Rated voltage	250 V
Rated DC voltage	250 V	Nominal current	10 A
Current at maximum wires	10 A	Standards	IEC 61984, In accordance with IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	4 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)	14 AWG	Voltage size B (cURus)	300 V
Wire cross section max. (cURus)	14 AWG	Certificate No. (cURus)	E60693
Wire cross section min. (cURus)	24 AWG	Conductor size Field wiring min. (cURus)	24 AWG
Conductor size Factory wiring min. (cURus)	24 AWG	Current size B (cURus)	10 A
Voltage size C (cURus)	300 V	Current size C (cURus)	10 A
Conductor size Field wiring max. (cURus)	14 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		

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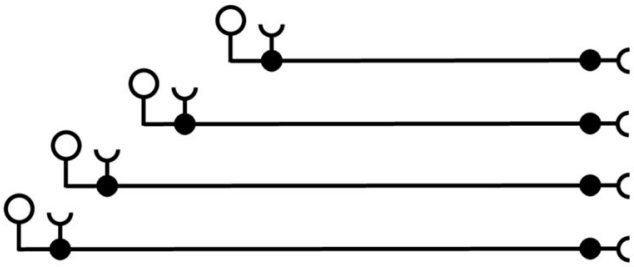
Drawings



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Accessories

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.	1608860000	Z-series, Cross-connector, 24 A
GTIN (EAN)	4008190123680	
Qty.	60 ST	
Type	ZQV 2.5/3	Version
Order No.	1608870000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190061630	
Qty.	60 ST	
Type	ZQV 2.5/4	Version
Order No.	1608880000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190082208	
Qty.	60 ST	
Type	ZQV 2.5/5	Version
Order No.	1608890000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190065713	
Qty.	20 ST	
Type	ZQV 2.5/6	Version
Order No.	1608900000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190149840	
Qty.	20 ST	
Type	ZQV 2.5/7	Version
Order No.	1608910000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190159665	
Qty.	20 ST	
Type	ZQV 2.5/8	Version
Order No.	1608920000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190061531	
Qty.	20 ST	
Type	ZQV 2.5/9	Version
Order No.	1608930000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190117009	
Qty.	20 ST	
Type	ZQV 2.5/10	Version
Order No.	1608940000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190099060	
Qty.	20 ST	
Type	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

Type	ZQV 2.5/50	Version
Order No.	1697540000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190883256	
Qty.	10 ST	

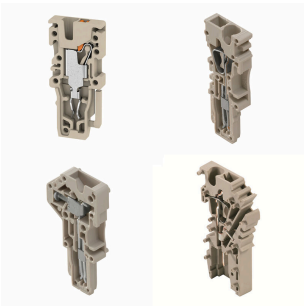
Mounting support

We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

General ordering data

Type	FEKO ZRV2.5 1.5-2.5	Version
Order No.	1848480000	Z-series, Crimp contact, 4.15 mm, silver, Direct mounting
GTIN (EAN)	4032248390649	
Qty.	4200 ST	
Type	FEKO ZRV2.5 0.5-1	Version
Order No.	1854760000	Z-series, Crimp contact, 4.15 mm, silver, Direct mounting
GTIN (EAN)	4032248401314	
Qty.	5000 ST	
Type	FEKO ET ZRV2.5 1.5-2.5	Version
Order No.	1893990000	Z-series, Crimp contact, 4.15 mm, silver, Direct mounting
GTIN (EAN)	4032248508211	
Qty.	500 ST	
Type	FEKO ET ZRV2.5 0.5-1	Version
Order No.	1893970000	Z-series, Crimp contact, 4.15 mm, silver, Direct mounting
GTIN (EAN)	4032248508198	
Qty.	500 ST	
Type	FEKO ZRV2.5 0.2-0.35	Version
Order No.	1854750000	Z-series, Crimp contact, 4.15 mm, silver, Direct mounting
GTIN (EAN)	4032248401321	
Qty.	5000 ST	

Plugs



The plugs for our WeiCoS-System are available for all different connection systems. The product range includes preassembled connectors from 1 to 10 poles and the possibility of an individual assembly. This ensures maximum flexibility for every application. The customized accessories increase the safety and protection against environmental influences.

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Accessories

General ordering data

Type	STGH ZRV2.5	Version
Order No.	1907000000	Z-series, Plug housing, 5.15 mm, dark beige, dark beige, Direct
GTIN (EAN)	4032248530762	mounting
Qty.	50 ST	
Type	STGH O.R/SW ZRV2.5	Version
Order No.	1898420000	Z-series, Plug housing, 5.15 mm, black, black, Direct mounting
GTIN (EAN)	4032248517619	
Qty.	25 ST	
Type	STGH O.ZA ZRV2.5	Version
Order No.	1907010000	Z-series, Plug housing, 5.15 mm, dark beige, dark beige, Direct
GTIN (EAN)	4032248530779	mounting
Qty.	50 ST	
Type	STGH O.ZA/O.R/SW ZRV2.5	Version
Order No.	1898430000	Z-series, Plug housing, 5.15 mm, black, black, Plug
GTIN (EAN)	4032248517626	
Qty.	25 ST	
Type	BST 4 ZRV2.5	Version
Order No.	1906990000	Z-series, Blind plug, 20.8 mm, dark beige
GTIN (EAN)	4032248530755	
Qty.	25 ST	

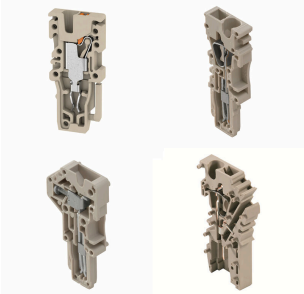
End plates and partition plates

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	AP ZRV2.5	Version
Order No.	1906980000	Z-series, End plate, 5.1 mm, dark beige, dark beige, Direct mounting
GTIN (EAN)	4032248530748	
Qty.	10 ST	

Plugs



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Accessories

General ordering data

Type	ZE ZRV2.5	Version
Order No.	2318670000	Z-series, Strain relief, 5 mm, black, black, Direct mounting
GTIN (EAN)	4032248546640	
Qty.	25 ST	

Type	VREL 2 ZRV2.5/4	Version
Order No.	1167890000	Z-series, Locking element
GTIN (EAN)	4032248959549	
Qty.	20 ST	

Type	VREL 4 ZRV2.5/4	Version
Order No.	1167900000	Z-series, Locking element
GTIN (EAN)	4032248959563	
Qty.	10 ST	

Type	VREL 8 ZRV2.5/4	Version
Order No.	1167910000	Z-series, Locking element
GTIN (EAN)	4032248959693	
Qty.	10 ST	

Contact removal tools

Weidmüller offers a variety of crimping tools, contact removal tools, and fibre optic tools.

General ordering data

Type	REMOVAL TOOL AFK	Version
Order No.	1866760000	Z-series, Mounting tool
GTIN (EAN)	4032248438877	
Qty.	1 ST	

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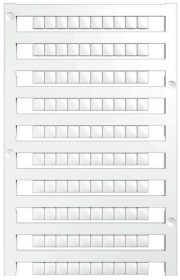
Accessories

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.

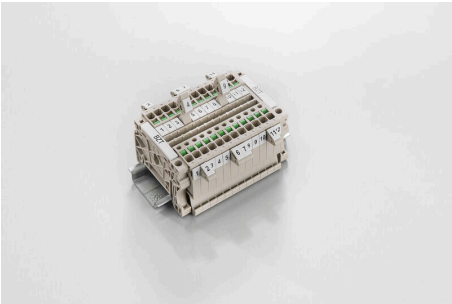
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1000 ST	
Type	WS 12/5 MC NE WS	Version
Order No.	1609860000	WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190203481	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 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

Type	BZT 1 WS 10/5	Version
Order No.	1805490000	Accessories, Marker holder
GTIN (EAN)	4032248270231	
Qty.	100 ST	
Type	BZT 1 ZA WS 10/5	Version
Order No.	1805520000	Accessories, Marker holder
GTIN (EAN)	4032248270248	
Qty.	100 ST	

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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	Version
Order No.	2007190000	WS, Terminal marker, 12 x 5 mm, Weidmueller, white
GTIN (EAN)	4050118392036	
Qty.	800 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.	2749610000	Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118896350	thickness (A): 0.6 mm
Qty.	1 ST	

ZRV 2.5/1

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Accessories

... for Weidmüller DFF and ZRV contacts

Crimping tools for for turned/stamped contact
- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation
- With stop for exact positioning of the contacts.

General ordering data

Type	HTF AFK 2.5	Version
Order No.	9201040000	Pressing tool, Crimping tool for contacts, 0.2mm², 2.5mm², B-Crimp
GTIN (EAN)	4032248419678	
Qty.	1 ST	