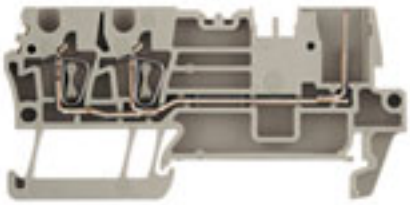
ZT 2.5/3AN/1

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, Rated cross-section: 2.5 mm², Tension-clamp connection, dark beige
Order No.	1815090000
Type	ZT 2.5/3AN/1
GTIN (EAN)	4032248370009
Qty.	50 pc(s).

ZT 2.5/3AN/1

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Technical data

Dimensions and weights

Depth	34.5 mm	Depth (inches)	1.358 inch
Depth including DIN rail	35 mm	Height	71.5 mm
Height (inches)	2.815 inch	Width	5.1 mm
Width (inches)	0.201 inch	Net weight	7.46 g

Temperatures

Storage temperature	-25 °C...55 °C	Continuous operating temp., min.	-50 °C
Continuous operating temp., max.	120 °C		

Material data

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

System specifications

Version	2 tension-clamp connections - 1 plug-in connection, pluggable	End cover plate required	Yes
Number of levels	1	Number of clamping points per level	3
Number of potentials per tier	1	Levels cross-connected internally	No
PE connection	No	Rail	TS 35

Additional technical data

Explosion-tested version	No	Open sides	right
Type of mounting	Snap-on		

CSA rating data

Certificate number (cCSAus)	154685-1460993	Current size C (cCSAus)	20 A
Current size D (cCSAus)	5 A	Voltage size C (cCSAus)	300 V
Voltage size D (cCSAus)	600 V	Wire cross section max. (cCSAusX)	12 AWG
Wire cross section min. (cCSAusX)	26 AWG		

Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	2.5 mm²	Connection type, additional connection	Plug-in connection

Conductors for clamping (rated connection)

Blade size	0.6 x 3.5 mm
Clamping range, max.	4 mm²
Clamping range, min.	0.13 mm²
Connection direction	top
Gauge to IEC 60947-1	A2
Number of connections	3
Stripping length	10 mm

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Technical data

Tube length for wire-end ferrule with plastic collar DIN 46228/4	Cross-section for conductor connection	nominal	0.5 mm²
	Tube length	max.	10 mm
		min.	6 mm
	Cross-section for conductor connection	nominal	0.75 mm²
	Tube length	max.	12 mm
		min.	6 mm
	Cross-section for conductor connection	nominal	1 mm²
	Tube length	max.	12 mm
		min.	6 mm
	Cross-section for conductor connection	nominal	1.5 mm²
	Tube length	max.	12 mm
		min.	8 mm
	Cross-section for conductor connection	nominal	2.5 mm²
	Tube length	max.	12 mm
		min.	8 mm
Tube length for wire-end ferrule without plastic collar DIN 46228/1	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	nominal	10 mm
	Cross-section for conductor connection	nominal	1.5 mm²
	Tube length	max.	12 mm
		min.	10 mm
	Cross-section for conductor connection	nominal	2.5 mm²
	Tube length	max.	12 mm
		min.	10 mm

Type of connection	Tension-clamp connection
Type of connection 2	Plug-in connection
Wire connection cross section AWG, max.	AWG 26
Wire connection cross section AWG, min.	AWG 12
Wire connection cross section, finely stranded, max.	4 mm²
Wire connection cross section, finely stranded, 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 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, solid core, max.	4 mm²
Wire connection cross-section, solid core, min.	0.5 mm²

General

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

Creation date July 7, 2024 7:01:32 PM CEST

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Technical data

Rating data

Rated cross-section	2.5 mm²	Rated voltage	500 V
Max. voltage of clamp support & plug-gable system	690 V	Rated DC voltage	500 V
Rated current	24 A	Current at maximum wires	24 A
Standards	In accordance with IEC 60947-7-1	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
Pollution severity	3	Surge voltage category	III

UL rating data

Certificate No. (cURus)	E60693	Conductor size Factory wiring max. (cU-Rus)	12 AWG
Conductor size Factory wiring min. (cU-Rus)	26 AWG	Conductor size Field wiring max. (cURus)	12 AWG
Conductor size Field wiring min. (cURus)	26 AWG	Current size C (cURus)	20 A
Current size D (cURus)	5 A	Voltage size C (cURus)	300 V
Voltage size D (cURus)	600 V		

Classifications

ETIM 7.0	EC000897	ETIM 8.0	EC000897
ETIM 9.0	EC000897	ECLASS 11.0	27-14-11-20
ECLASS 12.0	27-14-11-20	ECLASS 13.0	27-25-01-17

Environmental Product Compliance

REACH SVHC	/

Approvals

Approvals

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

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Technical data

Downloads

Approval/Certificate/Document of Conformity	DNVGL certificate CB Testreport CB Certificate Declaration of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

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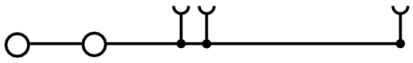
Drawings



ZT 2.5/3AN/1

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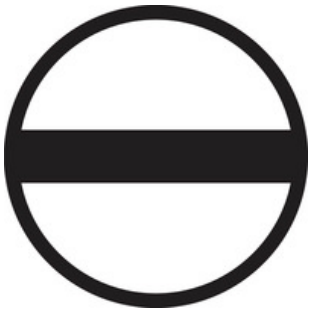
Accessories

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 pc(s).	

2.5 mm²

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

Type	ZAP/TW ZT2.5/3AN	Version
Order No.	1816050000	Z-series, End plate, Partition plate
GTIN (EAN)	4032248370627	
Qty.	50 pc(s).	

ZT 2.5/3AN/1

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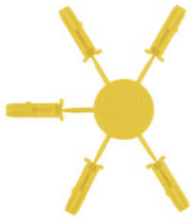
Accessories

Coding elements



Through the use of coding pins, individual coding options ensure trouble-free plug-in connection.

General ordering data

Type	KOSF ZT2.5	Version
Order No.	1816150000	Z-series, Coding element, yellow, 2.9 mm
GTIN (EAN)	4032248370726	
Qty.	50 pc(s).	

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.

General ordering data

Type	WS 10/5 MC NE WS	Version
Order No.	1635000000	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 pc(s).	

ZT 2.5/3AN/1

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Accessories

Z-Series

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 ZT2.5	Version
Order No.	1827080000	Accessories, Test adapter, 17.5 A
GTIN (EAN)	4032248411276	
Qty.	25 pc(s).	

Type	ZTA ZT2.5/ZA	Version
Order No.	1847600000	Accessories, Test adapter, 17.5 A
GTIN (EAN)	4032248412679	
Qty.	25 pc(s).	

Locking elements

The plugs can be securely and easily fixed to the base terminal by using a locking element. The locking element avoids an unintentional disconnection of the plugs from the bas terminal and ensures maximum safety.

General ordering data

Type	ZVR ZP2.5	Version
Order No.	1816130000	Z-series, Locking clips, yellow, 3.9 mm
GTIN (EAN)	4032248370702	
Qty.	25 pc(s).	

ZT 2.5/3AN/1

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Accessories

2.5 mm²

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.

General ordering data

Type	WP 2.5/1AN/1	Version
Order No.	1305270000	Plug (terminal), Screw connection, 2.5 mm², 500 V, 24 A, Number of
GTIN (EAN)	4050118104547	poles: 1, dark beige
Qty.	50 pc(s).	
Type	WP 2.5/1AN/10	Version
Order No.	1305280000	Plug (terminal), Screw connection, 2.5 mm², 500 V, 24 A, Number of
GTIN (EAN)	4050118104530	poles: 10, dark beige
Qty.	50 pc(s).	

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

Type	DEK 5/5 MC SDR	Version
Order No.	1609810000	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190456597	Weidmueller, To customer specification
Qty.	200 pc(s).	

ZT 2.5/3AN/1

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Accessories

2.5 mm²

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.

General ordering data

Type	ZP 2.5/1AN/QV/1 GN	Version
Order No.	1820570000	Z-series, Plug-in connector, green, Direct mounting
GTIN (EAN)	4032248370078	
Qty.	50 pc(s).	
Type	ZP 2.5/1AN/QV/9	Version
Order No.	1815270000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342556	
Qty.	20 pc(s).	
Type	ZP 2.5/1AN/QV/14	Version
Order No.	1815320000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370122	
Qty.	10 pc(s).	
Type	ZP 2.5/1AN/QV/1	Version
Order No.	1815190000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370061	
Qty.	50 pc(s).	
Type	ZP 2.5/1AN/QV/2	Version
Order No.	1815200000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370085	
Qty.	25 pc(s).	
Type	ZP 2.5/1AN/QV/8	Version
Order No.	1815260000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342549	
Qty.	20 pc(s).	
Type	ZP 2.5/1AN/QV/13	Version
Order No.	1815310000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370115	
Qty.	10 pc(s).	
Type	ZP 2.5/1AN/QV/5	Version
Order No.	1815230000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342518	
Qty.	25 pc(s).	
Type	ZP 2.5/1AN/QV/10	Version
Order No.	1815280000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342563	
Qty.	20 pc(s).	
Type	ZP 2.5/1AN/QV/3	Version
Order No.	1815210000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370092	
Qty.	25 pc(s).	

ZT 2.5/3AN/1

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Accessories

Type	ZP 2.5/1AN/QV/6	Version
Order No.	1815240000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342525	
Qty.	25 pc(s).	
Type	ZP 2.5/1AN/QV/4	Version
Order No.	1815220000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370108	
Qty.	25 pc(s).	
Type	ZP 2.5/1AN/QV/17	Version
Order No.	1815350000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370153	
Qty.	10 pc(s).	
Type	ZP 2.5/1AN/QV/15	Version
Order No.	1815330000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370139	
Qty.	10 pc(s).	
Type	ZP 2.5/1AN/QV/7	Version
Order No.	1815250000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342532	
Qty.	25 pc(s).	
Type	ZP 2.5/1AN/QV/11	Version
Order No.	1815290000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342570	
Qty.	20 pc(s).	
Type	ZP 2.5/1AN/QV/12	Version
Order No.	1815300000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248342587	
Qty.	20 pc(s).	
Type	ZP 2.5/1AN/QV/16	Version
Order No.	1815340000	Z-series, Plug-in connector, dark beige, Direct mounting
GTIN (EAN)	4032248370146	
Qty.	10 pc(s).	

ZT 2.5/3AN/1

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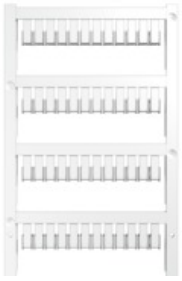
Accessories

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

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	ZS 10/5 MC NE WS	Version
Order No.	1610000000	ZS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190263171	Allen-Bradley, white
Qty.	480 pc(s).	

2.5 mm²

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

Type	ZQV 2.5N/8 GE	Version
Order No.	1693860000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883690	
Qty.	20 pc(s).	

Type	ZQV 2.5N/20 GE	Version
Order No.	1909000000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4032248535613	
Qty.	20 pc(s).	

Type	ZQV 2.5N/50 GE	Version
Order No.	1693890000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883737	
Qty.	5 pc(s).	

Type	ZQV 2.5N/3 GE	Version
Order No.	1693810000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883645	
Qty.	60 pc(s).	

ZT 2.5/3AN/1

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Accessories

Type	ZQV 2.5N/5 GE	Version
Order No.	1693830000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883669	
Qty.	20 pc(s).	
Type	ZQV 2.5N/9 GE	Version
Order No.	1693870000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883706	
Qty.	20 pc(s).	
Type	ZQV 2.5N/4 GE	Version
Order No.	1693820000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883652	
Qty.	60 pc(s).	
Type	ZQV 2.5N/10 GE	Version
Order No.	1693880000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883720	
Qty.	20 pc(s).	
Type	ZQV 2.5N/2 GE	Version
Order No.	1693800000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883621	
Qty.	60 pc(s).	
Type	ZQV 2.5N/6 GE	Version
Order No.	1693840000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883676	
Qty.	20 pc(s).	
Type	ZQV 2.5N/7 GE	Version
Order No.	1693850000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883683	
Qty.	20 pc(s).	

Z-Series

Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

General ordering data

Type	ZAD 9/4	Version
Order No.	1934160000	Z-series, Cover
GTIN (EAN)	4032248590247	
Qty.	20 pc(s).	

ZT 2.5/3AN/1

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Accessories

Strain reliefs

The strain relief protects the contact against mechanical stress and protects the connector against inadvertent release from the contact point.

General ordering data

Type	ZZE ZP2.5/4/K	Version
Order No.	1059110000	Z-series, Strain relief
GTIN (EAN)	4032248840922	
Qty.	25 pc(s).	

Type	ZZE ZP2.5	Version
Order No.	1816140000	Z-series, Strain relief, yellow, 9.9 mm
GTIN (EAN)	4032248370719	
Qty.	25 pc(s).	

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 pc(s).	

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