ZDK 2.5-2PE

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	Z-series, PE terminal, Double-tier terminal, Rated cross-section: 2.5 mm², Tension-clamp connection, Green/yellow
Order No.	1791010000
Type	ZDK 2.5-2PE
GTIN (EAN)	4032248331215
Qty.	50 pc(s).

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Technical data

Dimensions and weights

Depth	54.5 mm	Depth (inches)	2.146 inch
Depth including DIN rail	55.5 mm	Height	72.5 mm
Height (inches)	2.854 inch	Width	5.1 mm
Width (inches)	0.201 inch	Net weight	14.18 g

Temperatures

Storage temperature	-25 °C...55 °C	Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Material data

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

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO16ATEX1808U	Certificate No. (IECEX)	IECEXULD16.0036U
Wire cross section max. (ATEX)	4 mm²	Wire cross section max. (IECEX)	4 mm²
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	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	No	PE connection	Yes
Rail	TS 35	PE function	Yes
PEN function	No		

Additional technical data

Explosion-tested version	Yes	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on

CSA rating data

Certificate No. (CSA)	200039-1236167	Wire cross section max. (CSA)	12 AWG
Wire cross section min. (CSA)	30 AWG		

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Technical data

Conductors for clamping (rated connection)

Blade size	0.6 x 3.5 mm	Clamping range, max.	4 mm²
Clamping range, min.	0.05 mm²	Connection direction	Inclined / angled
Gauge to IEC 60947-1	A2	Number of connections	4
Stripping length	10 mm	Type of connection	Tension-clamp connection
Wire connection cross section, finely stranded, max.	2.5 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.	1.5 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	IEC 60947-7-2

PE rating data

Rated short-time current	300 A (2.5 mm²)	PEN function	No

Rating data

Rated cross-section	2.5 mm²	Rated voltage to adjoining terminal	800 V
Rated DC voltage	800 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage to adjacent terminal	8 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Pollution severity	3

UL rating data

Certificate No. (cURus)	E60693	Conductor size Factory wiring max. (cURus)	12 AWG
Conductor size Factory wiring min. (cURus)	26 AWG	Conductor size Field wiring max. (cURus)	12 AWG
Conductor size Field wiring min. (cURus)	26 AWG		

Classifications

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

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693
Certificate No. (cURusEX)	E184763

Downloads

Approval/Certificate/Document of Conformity	UKCA Ex Attestation of Conformity ATEX Certificate IECEx Certificate CCC Ex Certificate UKCA Ex Certificate Declaration of Conformity Attestation of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
Product Change Notification	PCN_ZPE_Q2_2021 - EN PCN_ZPE_Q2_2021 - DE Product Change Notification ZPE Q1/2022 DE Product Change Notification Q1/2022 EN
User Documentation	NTI ZDK-PE 2.5-2 NTI ZDK-PE 2.5-2 V StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

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Drawings

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Accessories

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 1/4-2 GE	Version
Order No.	1764560000	Z-series, Cover
GTIN (EAN)	4032248066063	
Qty.	20 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 10/15 MC NE WS	Version
Order No.	1854090000	WS, Terminal marker, 10 x 15 mm, Pitch in mm (P): 15.00
GTIN (EAN)	4032248390694	Weidmueller, Allen-Bradley, white
Qty.	240 pc(s).	

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Accessories

Z-Series

The use of reducing sleeves simplifies the connection of conductors with smaller cross-sections. Conductors can be reliably inserted into the clamping point without the strands fraying. The use of a reducing sleeve centres the conductor in the entry point.

General ordering data

Type	ZRH 1.5H/1	Version
Order No.	1678810000	Z-series, Reducing sleeve
GTIN (EAN)	4008190487324	
Qty.	1,000 pc(s).	

Type	ZRH 1.5H/2	Version
Order No.	1678800000	Z-series, Reducing sleeve
GTIN (EAN)	4008190487317	
Qty.	1,000 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 ZDK2.5-2 OR	Version
Order No.	1791070000	Z-series, End plate, Partition plate
GTIN (EAN)	4032248223787	
Qty.	20 pc(s).	

Type	ZAP/TW ZDK2.5-2 BL	Version
Order No.	1791060000	Z-series, End plate, Partition plate
GTIN (EAN)	4032248223770	
Qty.	20 pc(s).	

Type	ZAP/TW ZDK2.5-2	Version
Order No.	1791050000	Z-series, End plate, Partition plate
GTIN (EAN)	4032248223763	
Qty.	20 pc(s).	

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Accessories

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).	

Tools

Our special tools support within the cabinet process in the area of wiring or also the assembly of the components.

General ordering data

Type	ZBW-6	Version
Order No.	1650700000	Z-series, Operating tool
GTIN (EAN)	4008190299378	
Qty.	1 pc(s).	

Type	ZBW 1/3.5	Version
Order No.	1781930000	Z-series, Operating tool
GTIN (EAN)	4032248199532	
Qty.	1 pc(s).	

Type	ZBWW	Version
Order No.	1669630000	Z-series, Operating tool
GTIN (EAN)	4008190429119	
Qty.	1 pc(s).	

Type	ZBW 4	Version
Order No.	1650690000	Z-series, Operating tool
GTIN (EAN)	4008190299361	
Qty.	1 pc(s).	

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Accessories

Type	ZBW 1	Version
Order No.	1669620000	Z-series, Operating tool
GTIN (EAN)	4008190429126	
Qty.	1 pc(s).	

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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.
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- Markers in proven MultiCard format

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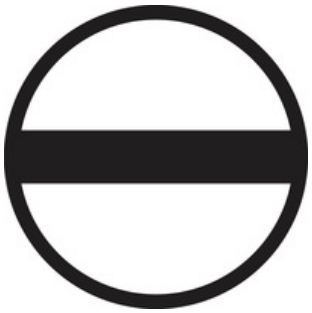
General ordering data

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

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).	

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).	

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Accessories

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

Type	ZEW 35/2	Version
Order No.	8630740000	End bracket, Wemid, dark beige, Rail: TS 35, Snap-on
GTIN (EAN)	4032248348916	
Qty.	20 pc(s).	

Type	ZEW 35	Version
Order No.	9540000000	End bracket, Wemid, dark beige, Rail: TS 35, Snap-on
GTIN (EAN)	4008190956264	
Qty.	20 pc(s).	

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 4	Version
Order No.	1688110000	Accessories, Test adapter, 11 A
GTIN (EAN)	4008190855666	
Qty.	25 pc(s).	

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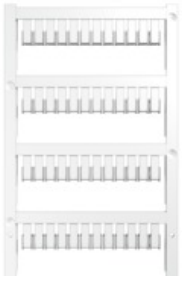
Accessories

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

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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).	

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).	