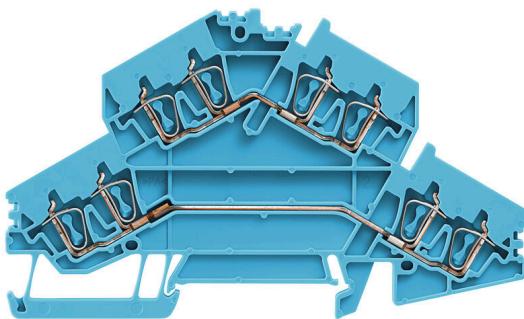


ZDK 2.5-2/4AN BL

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 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	Feed-through terminal, Tension-clamp connection, 2.5 mm ² , 800 V, 22 A, blue
Order No.	1480270000
Type	ZDK 2.5-2/4AN BL
GTIN (EAN)	4050118288636
Qty.	50 items

ZDK 2.5-2/4AN BL

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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	62 mm	Depth (inches)	2.4409 inch
Height	104 mm	Height (inches)	4.0945 inch
Width	5.1 mm	Width (inches)	0.2008 inch
Net weight	17.88 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-50 °C...75 °C
Operating temperature	-50 °C...120 °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	blue
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)	19 A
Wire cross section max. (ATEX)	4 mm ²	Max. voltage (IECEx)	550 V
Current (IECEx)	19 A	Wire cross section max. (IECEx)	4 mm ²
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	2	Number of levels	2
Number of clamping points per level	4	Levels cross-connected internally	No
PE connection	No	Mounting rail	TS 35

Additional technical data

Explosion-tested version	Yes	Type of mounting	Snap-on
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Technical data

CSA rating data

Wire cross section max. (CSA)	12 AWG
Current size C (CSA)	20 A
Voltage size B (CSA)	600 V
Voltage size D (CSA)	600 V
Wire cross section min. (CSA)	30 AWG

Voltage size C (CSA)	600 V
Certificate No. (CSA)	200039-1842498
Current size B (CSA)	20 A
Current size D (CSA)	5 A

Conductors for clamping (additional connection)

Connection type, additional connection Tension-clamp connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A2
Connection direction	Inclined / angled
Type of connection 2	Tension-clamp connection
Number of connections	8
Clamping range, min.	0.05 mm ²
Wire connection cross section AWG, min.	AWG 30
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.05 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.05 mm ²
Wire connection cross section, finely stranded, min.	0.05 mm ²
Connection cross-section, stranded, min.	0.05 mm ²
Wire connection cross-section, solid core, min.	0.05 mm ²

Wire connection cross section AWG, max.	AWG 12
Stripping length	10 mm
Type of connection	Tension-clamp connection
Clamping range, max.	4 mm ²
Blade size	0.6 x 3.5 mm
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	2.5 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²
Connection cross-section, stranded, max.	2.5 mm ²
Wire connection cross-section, solid core, max.	4 mm ²
Connection cross-section, finely stranded, min.	0.05 mm ²

General

Wire connection cross section AWG, max.	AWG 12
Standards	IEC 60947-7-1

Wire connection cross section AWG, min.	AWG 30
Mounting rail	TS 35

Rating data

Rated cross-section	2.5 mm ²
Rated DC voltage	800 V
Current at maximum wires	26 A
Volume resistance according to IEC 60947-7-x	1.33 mΩ
Power loss in accordance with IEC 60947-7-x	0.77 W

Rated voltage	800 V
Nominal current	22 A
Standards	IEC 60947-7-1
Rated impulse withstand voltage	8 kV
Pollution severity	3

UL rating data

Conductor size Factory wiring max. (cURus)	12 AWG
Voltage size D (cURus)	600 V
Conductor size Field wiring min. (cURus)	30 AWG
Current size B (cURus)	20 A

Voltage size B (cURus)	600 V
Certificate No. (cURus)	E60693
Conductor size Factory wiring min. (cURus)	30 AWG
Voltage size C (cURus)	600 V

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Technical data

Current size C (cURus)	20 A	Current size D (cURus)	5 A
Conductor size Field wiring max. (cURus) 12 AWG			

Classifications

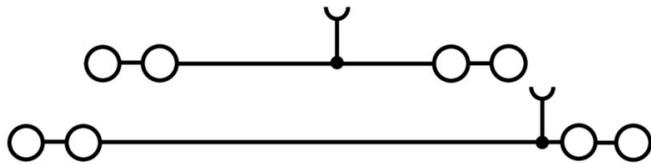
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 14.0	27-25-01-02
ECLASS 15.0	27-25-01-02		

ZDK 2.5-2/4AN BL

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Drawings

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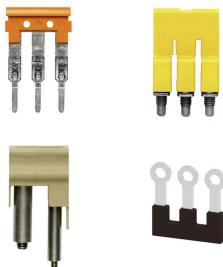
ZDK 2.5-2/4AN BL

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Accessories

Cross-connections

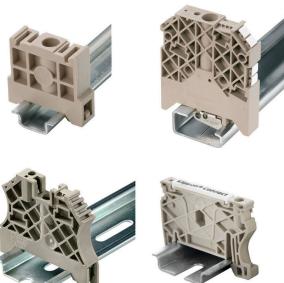


The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	ZQV 2.5/10	Version
Order No.	1608940000	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190099060	
Qty.	20 ST	
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	

End bracket



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	Version
Order No.	9540000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C
GTIN (EAN)	4008190956264	
Qty.	20 ST	

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Accessories

Testadapter and testsockets



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/ZA	Version
Order No.	1847600000	Accessories, Test adapter, 17.5 A
GTIN (EAN)	4032248412679	
Qty.	25 ST	

Reducing sleeves



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.	1000 ST	
Type	ZRH 1.5H/2	Version
Order No.	1678800000	Z-series, Reducing sleeve
GTIN (EAN)	4008190487317	
Qty.	1000 ST	

SnapMark



SnapMark - this tag carrier has been developed specifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows cross-connections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

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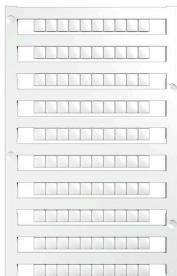
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Accessories

General ordering data

Type	SNAPMARK I	Version
Order No.	1805880000	Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248273614	Weidmüller, white
Qty.	50 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.

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	Weidmüller, white
Qty.	1000 ST	
Type	WS 10/5 MC NE WS	Version
Order No.	1635000000	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmüller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 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	ZAP/TW ZDK2.5-2/4AN	Version
Order No.	1394050000	Z-series, End plate, Partition plate
GTIN (EAN)	4050118301281	
Qty.	20 ST	

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Accessories

Warning cover



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 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	

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.

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Accessories**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	