

**ZDUB 2.5-2/4AN/DB****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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	Z-series, Feed-through terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Tension-clamp connection, dark beige, Direct mounting
Order No.	<a href="#">1704690000</a>
Type	ZDUB 2.5-2/4AN/DB
GTIN (EAN)	4008190948481
Qty.	100 pc(s).

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**Technical data****Dimensions and weights**

Depth	24 mm	Depth (inches)	0.945 inch
Height	33.5 mm	Height (inches)	1.319 inch
Width	10.2 mm	Width (inches)	0.402 inch
Net weight	7.29 g		

**Temperatures**

Storage temperature		Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity
	-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		

**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)	2.5 mm <sup>2</sup>	Max. voltage (IECEX)	550 V
Current (IECEX)	21 A	Wire cross section max. (IECEX)	2.5 mm <sup>2</sup>
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Ex 2014/34/EU label	II 2 G D		Ex eb II C Gb

**System specifications**

Version	Tension-clamp connection, can only be bridged at the clamping point, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	4	Number of potentials per tier	1
Levels cross-connected internally	Yes	PE connection	No
N-function	No	PE function	No
PEN function	No		

**Additional technical data**

Explosion-tested version	Yes	Installation advice	Direct mounting
Open sides	right	Type of mounting	Direct mounting

**CSA rating data**

Certificate No. (CSA)	12400-379	Current size C (CSA)	25 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	12 AWG
Wire cross section min. (CSA)	26 AWG		

**Conductors for clamping (additional connection)**

Connection type, additional connection	Tension-clamp connection
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Creation date June 5, 2024 1:08:12 AM CEST

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**Technical data****Conductors for clamping (rated connection)**

Blade size	0.6 x 3.5 mm		
Clamping range, max.	4 mm <sup>2</sup>		
Clamping range, min.	0.13 mm <sup>2</sup>		
Connection direction	top		
Gauge to IEC 60947-1	A2		
Number of connections	4		
Stripping length	10 mm		
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	max.	10 mm
		min.	6 mm
	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>
	Tube length	max.	10 mm
		min.	6 mm
	Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	Tube length	max.	10 mm
		min.	6 mm
	Cross-section for conductor connection	nominal	1 mm <sup>2</sup>
	Tube length	max.	10 mm
Tube length for wire-end ferrule without plastic collar DIN 46228/1		min.	8 mm
	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	Tube length	nominal	8 mm
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>
	Cross-section for conductor connection	nominal	0.5 mm <sup>2</sup>
	Cross-section for conductor connection	nominal	0.75 mm <sup>2</sup>
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1 mm <sup>2</sup>
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1.5 mm <sup>2</sup>
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	2.5 mm <sup>2</sup>
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	10 mm
Type of connection	Tension-clamp connection		
Wire connection cross section AWG, max.	AWG 12		
Wire connection cross section AWG, min.	AWG 26		
Wire connection cross section, finely stranded, max.	2.5 mm <sup>2</sup>		
Wire connection cross section, finely stranded, min.	0.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	1.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm <sup>2</sup>		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>		
Wire connection cross-section, solid core, max.	4 mm <sup>2</sup>		
Wire connection cross-section, solid core, min.	0.5 mm <sup>2</sup>		

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**Technical data****Dimensions**

TS 15 offset 17 mm

**General**

Installation advice	Direct mounting	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 26

**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	30 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**

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	Current size C (cURus)	20 A
Voltage size C (cURus)	600 V		

**Classifications**

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	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

**Approvals**

Approvals



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

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Attestation of Conformity</a>
	<a href="#">UKCA Ex Attestation of Conformity</a>
	<a href="#">ATEX Certificate</a>
	<a href="#">IECEx Certificate</a>
	<a href="#">CCC Ex Certificate</a>
	<a href="#">UKCA Ex Certificate</a>
	<a href="#">Declaration of Conformity</a>
	<a href="#">UKCA declaration of conformity</a>
	<a href="#">Confirmation of Standards EN 45545-2_2020-10</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">Zuken E3.S</a>
User Documentation	<a href="#">Beipackzettel_ZDUB.pdf</a>
	<a href="#">NTI ZDUB 2.5-2/4AN/DM/DB</a>
	<a href="#">StorageConditionsTerminalBlocks</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

### ZDUB 2.5-2/4AN/DB

**Weidmüller Interface GmbH & Co. KG**

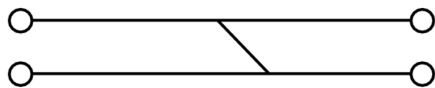
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## Drawings



**ZDUB 2.5-2/4AN/DB****Weidmüller Interface GmbH & Co. KG**

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Mounting feet**

Mounting feet are used to mount components that cannot be snapped directly on a DIN rail.

**General ordering data**

Type	MOFU 15/35 ZDUB	Version
Order No.	<a href="#">1723660000</a>	Accessories, Mounting foot
GTIN (EAN)	4008190975531	
Qty.	50 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.	<a href="#">2749610000</a>	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).	

## ZDUB 2.5-2/4AN/DB

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## Accessories

## 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.

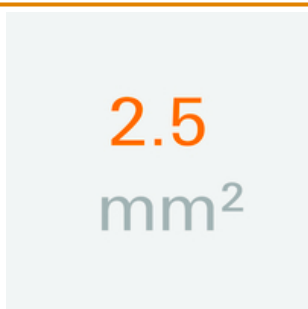
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- 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.	<a href="#">1609810000</a>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190456597	Weidmueller, To customer specification
Qty.	200 pc(s).	

2.5 mm<sup>2</sup>

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 ZDUB	Version
Order No.	<a href="#">1704750000</a>	Z-series, End plate
GTIN (EAN)	4008190948405	
Qty.	50 pc(s).	
Type	ZAP ZDUB BL	Version
Order No.	<a href="#">1704760000</a>	Z-series, End plate
GTIN (EAN)	4008190948412	
Qty.	50 pc(s).	
Type	ZTW ZDUB	Version
Order No.	<a href="#">1704340000</a>	Z-series, Partition plate
GTIN (EAN)	4008190948597	
Qty.	50 pc(s).	



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## Accessories

Type	ZAP ZDUB OR	Version
Order No.	<a href="#">1704770000</a>	Z-series, End plate
GTIN (EAN)	4008190948429	
Qty.	50 pc(s).	

### 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.	<a href="#">1610000000</a>	ZS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190263171	Allen-Bradley, white
Qty.	480 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 snapped 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.	<a href="#">1805490000</a>	Accessories, Marker holder
GTIN (EAN)	4032248270231	
Qty.	100 pc(s).	
Type	BZT 1 ZA WS 10/5	Version
Order No.	<a href="#">1805520000</a>	Accessories, Marker holder
GTIN (EAN)	4032248270248	
Qty.	100 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Z-Series**

**Z**  
Series

A partition plate is used for the optical separation of circuits or used for electrical isolation from neighbouring cross-connectors. In contrast to the end plate, the contour can be larger than the adjacent terminal blocks. However, it should not be smaller, as otherwise the required clearance and creepage distances within the application can no longer be maintained.

**General ordering data**

Type	ZBB ZDUB	Version
Order No.	<a href="#">1704740000</a>	Accessories, Fixing bracket
GTIN (EAN)	4008190948399	
Qty.	50 pc(s).	

**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**

Type	ZQB 2.5-2	Version
Order No.	<a href="#">1677120000</a>	Accessories, Cross-connector, 24 A
GTIN (EAN)	4008190467678	
Qty.	50 pc(s).	