ZDU 2.5/3AN WS

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 mm², 800 V, 24 A, white
Order No.	1683400000
Type	ZDU 2.5/3AN WS
GTIN (EAN)	4008190478100
Qty.	100 items

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ZDU 2.5/3AN WS

Technical data

Approvals

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

Dimensions and weights

Depth	38.5 mm	Depth (inches)	1.5157 inch
Depth including DIN rail	39.5 mm	Height	64.5 mm
Height (inches)	2.5394 inch	Width	5.1 mm
Width (inches)	0.2008 inch	Net weight	8.03 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-50 °C...75 °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	white
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO15ATEX1467U	Certificate No. (IECEX)	IECEXULD15.0008U
Max. voltage (ATEX)	550 V	Current (ATEX)	22 A
Wire cross section max. (ATEX)	4 mm²	Max. voltage (IECEX)	550 V
Current (IECEX)	22 A	Wire cross section max. (IECEX)	4 mm²
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	1	Number of levels	1

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Data sheet

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Technical data

Number of clamping points per level	3	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35		

Additional technical data

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

CSA rating data

Wire cross section max. (CSA)	12 AWG	Voltage size C (CSA)	600 V
Current size C (CSA)	27 A	Certificate No. (CSA)	200039-1152892
Voltage size B (CSA)	600 V	Current size B (CSA)	27 A
Voltage size D (CSA)	600 V	Current size D (CSA)	5 A
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Tension-clamp connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3	Wire connection cross section AWG, max.	AWG 12
Connection direction	top	Stripping length	10 mm
Type of connection	Tension-clamp connection	Number of connections	3
Clamping range, max.	4 mm²	Clamping range, min.	0.05 mm²
Blade size	0.6 x 3.5 mm	Wire connection cross section AWG, min.	AWG 30
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.	0.05 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.	0.05 mm²
Wire connection cross section, finely stranded, max.	4 mm²	Wire connection cross section, finely stranded, min.	0.05 mm²
Connection cross-section, stranded, max.	4 mm²	Connection cross-section, stranded, min.	0.05 mm²
Wire connection cross-section, solid core, max.	4 mm²	Wire connection cross-section, solid core, min.	0.05 mm²
Connection cross-section, finely stranded, min.	0.05 mm²		

General

Wire connection cross section AWG, max.	AWG 12	Installation advice	Busbar
Wire connection cross section AWG, min.	AWG 30	Standards	IEC 60947-7-1
Mounting rail	TS 35		

Rating data

Rated cross-section	2.5 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Nominal current	24 A

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Technical data

Current at maximum wires	31 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

Conductor size Factory wiring max. (cURus)	12 AWG	Certificate No. (cURus)	E60693
Conductor size Field wiring min. (cURus)	30 AWG	Conductor size Factory wiring min. (cURus)	30 AWG
Voltage size C (cURus)	600 V	Current size C (cURus)	25 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	27-25-01-01
ECLASS 15.0	27-25-01-01		

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Drawings

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		

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 2 BL	Version	
Order No.	1608780000	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190190897		
Qty.	50 ST		
Type	ZAP/TW 2 DB	Version	
Order No.	1608770000	Z-series, Accessories, End plate, Partition plate	
GTIN (EAN)	4008190190880		
Qty.	50 ST		
Type	ZAP/TW 2 GN	Version	
Order No.	1683760000	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190477257		
Qty.	50 ST		
Type	ZAP/TW 2 OR	Version	
Order No.	1608790000	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190190903		
Qty.	50 ST		
Type	ZAP/TW 2 RT	Version	
Order No.	1683740000	Z-series, End plate, Partition plate	
GTIN (EAN)	4008190477172		
Qty.	50 ST		

End bracket
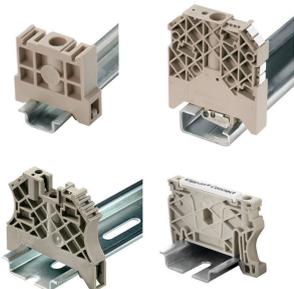
Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

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Accessories

General ordering data

Type	EW 35	Version	
Order No.	0383560000	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C	
GTIN (EAN)	4008190181314		
Qty.	50 ST		
Type	EW 35 GR 7032	Version	
Order No.	0383530000	End bracket, grey, TS 35, V-0, Wemid, Width: 9 mm, 120 °C	
GTIN (EAN)	4008190027322		
Qty.	50 ST		
Type	EW 35/SCHA/M3	Version	
Order No.	0258660000	End bracket, beige, TS 35, V-2, Wemid, Width: 16.5 mm, 100 °C	
GTIN (EAN)	4008190033477		
Qty.	20 ST		
Type	WEW 35/1	Version	
Order No.	1059000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C	
GTIN (EAN)	4008190172282		
Qty.	50 ST		
Type	WEW 35/2	Version	
Order No.	1061200000	End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C	
GTIN (EAN)	4008190030230		
Qty.	50 ST		
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		
Type	ZEW 35/2	Version	
Order No.	8630740000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 8 mm, 100 °C	
GTIN (EAN)	4032248348916		
Qty.	20 ST		

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 1	Version	
Order No.	1609040000	Accessories, Test adapter, 9 A	
GTIN (EAN)	4008190196851		
Qty.	25 ST		
Type	ZTA 1/ZA	Version	
Order No.	1609050000	Accessories, Test adapter, 9 A	
GTIN (EAN)	4008190206543		
Qty.	25 ST		

Accessories

| Type	PS 2.3 RT	Version	
Order No.	0180400000	Test adapter (terminal), 230 V, 20 mA	
GTIN (EAN)	4008190060121		
Qty.	20 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 2.5/1 WS	Version	
Order No.	1614300000	Z-series, Reducing sleeve	
GTIN (EAN)	4008190206789		
Qty.	1000 ST		
Type	ZRH 2.5/2 GR/V0	Version	
Order No.	1614290000	Z-series, Reducing sleeve	
GTIN (EAN)	4008190072476		
Qty.	1000 ST		
Type	ZRH 2.5/3	Version	
Order No.	1614280000	Z-series, Reducing sleeve	
GTIN (EAN)	4008190206796		
Qty.	1000 ST		

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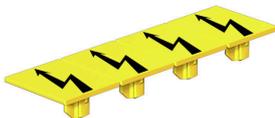
Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

General ordering data

Type	ZAD 1/4	Version	
Order No.	1609110000	Z-series, Cover	
GTIN (EAN)	4008190190910		
Qty.	20 ST		

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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.	1609810000	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4008190456597	Weidmueller, To customer specification	
Qty.	200 ST		

Blank
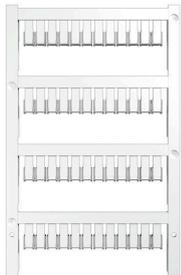
ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The 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 ST		

ZDU 2.5/3AN WS

Accessories
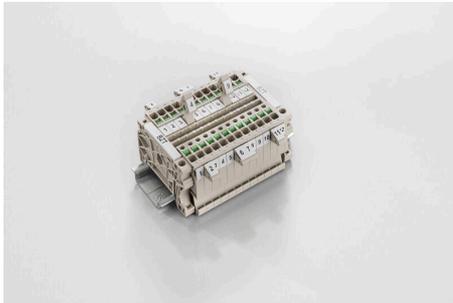
Marker holder

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 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.

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		