WDU 2.5/1.5/ZR

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 block, Screw connection, dark beige, 2.5 mm², 24 A, 800 V, Number of connections: 1
Order No.	1024700000
Type	WDU 2.5/1.5/ZR
GTIN (EAN)	4008190008833
Qty.	100 items

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WDU 2.5/1.5/ZR

Technical data

Approvals

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

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.8307 inch
Height	60 mm	Height (inches)	2.3622 inch
Width	5.1 mm	Width (inches)	0.2008 inch
Net weight	7.54 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption		
REACH SVHC	No SVHC above 0.1 wt%		
Product Carbon Footprint	Cradle to gate		0.099 kg CO2eq.

Material data

Basic material	Wemid	Colour	dark beige
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (IECEX)	IECEXULD14.0005U	Max. voltage (IECEX)	550 V
Current (IECEX)	20 A	Wire cross section max. (IECEX)	2.5 mm²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

Version	Screw connection, Additional connection, for screwable cross-connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1

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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	N-function	No
PE function	No	PEN function	No

Additional technical data

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

CSA rating data

Wire cross section max. (CSA)	14 AWG	Voltage size C (CSA)	300 V
Current size C (CSA)	20 A	Certificate No. (CSA)	12400-240
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (additional connection)

Terminal screw, additional connection	M 2.5	Connection direction additional connection	on side
Clamping range, further connection, max.	2.5 mm²	Clamping range, further connection, min.	0.13 mm²
Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	1.5 mm²	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	0.5 mm²
Conductor cross-section, flexible, further connection, min.	0.5 mm²	Number of connections, additional connection	2
Rated cross-section, further connection	1.5 mm²	Blade size, additional connection	SD 0.6 x 3.5
Cross-section for connected wire, multi-core, further connection, min.	0.5 mm²	Cross-section for connected wire, multi-core, further connection, max.	2.5 mm²
Tightening torque, additional connection, max.	0.6 Nm	Cross-section for connected wire, AWG, additional connection, min.	AWG 26
Rated current, additional connection	17.5 A	Cross-section for connected wire, solid-core, further connection, min.	0.5 mm²
Cross-section for connected wire, solid-core, further connection, max.	2.5 mm²	Connection type, additional connection	Screw connection
Cross-section for connected wire, flexible, further connection, max.	1.5 mm²	Cross-section for connected wire, AWG, additional connection, max.	AWG 12
Stripping length , additional connection	7 mm	Tightening torque, additional connection, min.	0.4 Nm

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3, A1
Wire connection cross section AWG, max.	AWG 12
Connection direction	on side
Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.4 Nm
Stripping length	10 mm
Type of connection	Screw connection
Number of connections	1
Clamping range, max.	4 mm²
Clamping range, min.	0.05 mm²
Clamping screw	M 2.5
Blade size	0.6 x 3.5 mm
Wire connection cross section AWG, min.	AWG 30

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WDU 2.5/1.5/ZR

Technical data

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, 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, max.	4 mm²			
Wire connection cross section, finely stranded, min.	0.5 mm²			
Connection cross-section, stranded, max.	4 mm²			
Connection cross-section, stranded, min.	1.5 mm²			
Twin wire-end ferrules, max.	1.5 mm²			
Twin wire-end ferrules, min.	0.5 mm²			
Torque level with DMS electric screwdriver	1			
Wire connection cross-section, solid core, max.	4 mm²			
Wire connection cross-section, solid core, min.	0.5 mm²			
Clampable conductor	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	0.5 mm²	
		max.	4 mm²	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	min.	10 mm
			max.	10 mm
			nominal	10 mm
		Tightening torque	min.	0.4 Nm
			max.	0.6 Nm
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	stranded, H07V-R	
		min.	1.5 mm²	
		max.	4 mm²	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	min.	10 mm
			max.	10 mm
			nominal	10 mm
		Tightening torque	min.	0.4 Nm
			max.	0.6 Nm
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	flexible, H05(07) V-K	
		min.	0.5 mm²	
		max.	4 mm²	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	min.	10 mm
			max.	10 mm
			nominal	10 mm
		Tightening torque	min.	0.4 Nm
			max.	0.6 Nm

WDU 2.5/1.5/ZR

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Technical data

General

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

Rating data

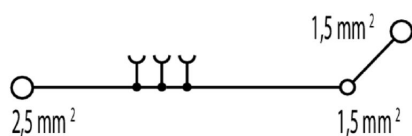|			
Rated cross-section	2.5 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Nominal current	24 A
Current at maximum wires	32 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Surge voltage category	III
Pollution severity	3		

UL rating data

Voltage size B (UR)	300 V	Current size B (UR)	20 A
Conductor size Factory wiring max. (UR)	12 AWG	Current size C (UR)	20 A
Voltage size C (UR)	300 V	Conductor size Factory wiring min. (UR)	30 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	30 AWG
Conductor size Field wiring max. (UR)	12 AWG		

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	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	ECLASS 14.0	27-25-01-01
ECLASS 15.0	27-25-01-01		

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WDU 2.5/1.5/ZR

Drawings

WDU 2.5/1.5/ZR

Weidmüller ⋺⋲

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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	WQV 2.5/2	Version	
Order No.	1053660000	Cross-connector (terminal), when screwed in, yellow, 32 A, Number of	
GTIN (EAN)	4008190031121	poles: 2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7 mm	
Qty.	50 ST		
Type	WQV 2.5/3	Version	
Order No.	1053760000	Cross-connector (terminal), when screwed in, yellow, 32 A, Number of	
GTIN (EAN)	4008190058999	poles: 3, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7 mm	
Qty.	50 ST		
Type	WQV 2.5/4	Version	
Order No.	1053860000	Cross-connector (terminal), when screwed in, yellow, 32 A, Number of	
GTIN (EAN)	4008190049706	poles: 4, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7 mm	
Qty.	50 ST		
Type	WQV 2.5/10	Version	
Order No.	1054460000	Cross-connector (terminal), when screwed in, yellow, 32 A, Number of	
GTIN (EAN)	4008190135089	poles: 10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7 mm	
Qty.	20 ST		
Type	ZQV 2.5N/2 GE	Version	
Order No.	1693800000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883621		
Qty.	60 ST		
Type	ZQV 2.5N/3 GE	Version	
Order No.	1693810000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883645		
Qty.	60 ST		
Type	ZQV 2.5N/4 GE	Version	
Order No.	1693820000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883652		
Qty.	60 ST		
Type	ZQV 2.5N/10 GE	Version	
Order No.	1693880000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883720		
Qty.	20 ST		
Type	ZQV 2.5N/20 GE	Version	
Order No.	1909000000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4032248535613		
Qty.	20 ST		

Accessories

### End plates and partition plates

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	WAP 2.5-10	Version
Order No.	1050000000	End plate for terminals, dark beige, Height: 56 mm, Width: 1.5 mm,
GTIN (EAN)	4008190103149	V-0, Wemid, Snap-on: No
Qty.	50 ST	
Type	WAP 2.5-10 BL	Version
Order No.	1050080000	End plate for terminals, blue, Height: 56 mm, Width: 1.5 mm, V-0,
GTIN (EAN)	4008190136611	Wemid, Snap-on: No
Qty.	50 ST	
Type	WAP 16+35 WTW 2.5-10	Version
Order No.	1050100000	End and partition plate for terminals, dark beige, Height: 56 mm,
GTIN (EAN)	4008190079901	Width: 1.5 mm, V-0, Wemid
Qty.	20 ST	
Type	WAP 16+35 WTW 2.5-10 BL	Version
Order No.	1050180000	End and partition plate for terminals, blue, Height: 56 mm, Width: 1.5
GTIN (EAN)	4008190013899	mm, V-0, Wemid
Qty.	20 ST	

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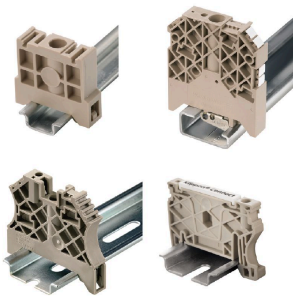
Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

Type	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	

WDU 2.5/1.5/ZR

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	WTA 2 WDU2.5-10	Version	
Order No.	1632320000	Test adapter (terminal), 1.5 mm², 250 V, 6 A	
GTIN (EAN)	4008190257347		
Qty.	25 ST		
Type	WTA 2/ZA WDU2.5-10	Version	
Order No.	1632330000	Test adapter (terminal), 1.5 mm², 250 V, 6 A	
GTIN (EAN)	4008190257330		
Qty.	25 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	Weidmueller, white	
Qty.	1000 ST		
Type	WS 12/5 MC NE WS	Version	
Order No.	1609860000	WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,	
GTIN (EAN)	4008190203481	Allen-Bradley, white	
Qty.	720 ST		

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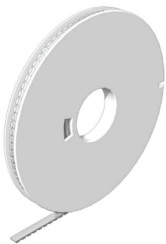
Accessories

Shield clamping saddle

With our wide range of KLBÜ shield connections, you can achieve flexible and self-adjusting shield contacting and ensure error-free plant operation.

General ordering data

Type	LS 2.8 WDU2.5-10	Version	
Order No.	1056400000	W-Series, Shield bus	
GTIN (EAN)	4008190036454		
Qty.	100 ST		

DEK 5/5

WS/ DEK
MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.
Your benefits with MultiMark
• Firm hold and durable printing
• Continuous strips save installation time
• Easy mounting thanks to an innovative composite material
• Large label field for optimal legibility
• High flexibility thanks to manufacturer independence

General ordering data

Type	DEK 5/5 MM WS	Version	
Order No.	2007110000	Dekafix, Terminal marker, 5 x 5 mm, Weidmueller, white	
GTIN (EAN)	4050118391862		
Qty.	800 ST		

Accessories

End plates and partition plates

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	WTW EN	Version	
Order No.	1058800000	Partition plate (terminal), dark beige, Height: 86 mm, Width: 3 mm,	
GTIN (EAN)	4008190140175	V-0, Wemid	
Qty.	20 ST		

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	WQB B/10	Version	
Order No.	1579050000	Cross-connector (terminal), when screwed in, black, 24 A, Number of	
GTIN (EAN)	4008190094508	poles: 10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 48.26 mm	
Qty.	20 ST		
Type	WQB B/2	Version	
Order No.	1579010000	Cross-connector (terminal), when screwed in, black, 24 A, Number of	
GTIN (EAN)	4008190021696	poles: 2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 10.14 mm	
Qty.	50 ST		
Type	WQB B/24	Version	
Order No.	1579060000	Cross-connector (terminal), when screwed in, black, 24 A, Number of	
GTIN (EAN)	4008190188597	poles: 24, Pitch in mm (P): 5.10, Insulated: Yes, Width: 123.22 mm	
Qty.	20 ST		
Type	WQB B/3	Version	
Order No.	1579020000	Cross-connector (terminal), when screwed in, black, 24 A, Number of	
GTIN (EAN)	4008190062392	poles: 3, Pitch in mm (P): 5.10, Insulated: Yes, Width: 15.28 mm	
Qty.	50 ST		
Type	WQB B/4	Version	
Order No.	1579030000	Cross-connector (terminal), when screwed in, black, 24 A, Number of	
GTIN (EAN)	4008190185046	poles: 4, Pitch in mm (P): 5.10, Insulated: Yes, Width: 20.42 mm	
Qty.	50 ST		

WDU 2.5/1.5/ZR

Accessories

| Type	WQB B/6		Version	
Order No.	1579040000		Cross-connector (terminal), when screwed in, black, 24 A, Number of	
GTIN (EAN)	4008190081041		poles: 6, Pitch in mm (P): 5.10, Insulated: Yes, Width: 30.7 mm	
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	STB 8.5/D4/2.3/M2.5 AKZ	Version	
Order No.	0215700000	Accessories, Socket	
GTIN (EAN)	4008190184872		
Qty.	50 ST		

Marker holder
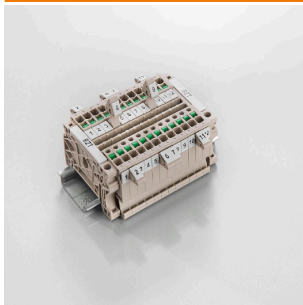
The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snaped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found 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		

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Weidmüller ϡϾ

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Accessories

WS 12/5

WS/ DEK
MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.
Your benefits with MultiMark
• Firm hold and durable printing
• Continuous strips save installation time
• Easy mounting thanks to an innovative composite material
• Large label field for optimal legibility
• High flexibility thanks to manufacturer independence

General ordering data

Type	WS 12/5 MM WS	Version	
Order No.	2007190000	WS, Terminal marker, 12 x 5 mm, Weidmueller, white	
GTIN (EAN)	4050118392036		
Qty.	800 ST		

End plates and partition plates

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	WAP 2.5-10/0.5MM	Version	
Order No.	1966380000	End plate for terminals, dark beige, Height: 54.5 mm, Width: 0.35	
GTIN (EAN)	4032248688616	mm, V-0, Wemid, Snap-on: Yes	
Qty.	50 ST		