Data sheet

WDU 2.5/10 BEZ/NE

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 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	Single- and multi-pole terminal strip, Screw connection, dark beige, 2.5 mm², 24 A, 500 V, Number of connections: 2, Number of levels: 1
Order No.	1020800000
Type	WDU 2.5/10 BEZ/NE
GTIN (EAN)	4008190133368
Qty.	10 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.8307 inch
Height	60 mm	Height (inches)	2.3622 inch
Width	51 mm	Width (inches)	2.0079 inch
Net weight	77.8 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-60 °C...85 °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	0,66 kg CO2 eq.

Material data

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

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Max. voltage (ATEX)	690 V	Current (ATEX)	24 A
Wire cross section max. (ATEX)	2.5 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	24 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, for plug-in cross-connector, for screwable cross-connection, One end without connector	End cover plate required	Yes
Number of potentials	1	Number of levels	1
Number of clamping points per level	2	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

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Technical data

Additional technical data

Open sides	right	Number of similar terminals	10
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)	20 A	Certificate No. (CSA)	200039-1057876
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	2.5 mm²	Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Wire connection cross section AWG, max.	AWG 12		
Connection direction	on side		
Stripping length	10 mm		
Type of connection 2	Screw connection		
Type of connection	Screw connection		
Number of connections	2		
Clamping range, max.	4 mm²		
Clamping range, min.	0.05 mm²		
Clamping screw	M 2.5		
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		
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.	0.05 mm²		
Clampable conductor	Connection specification	Screw connection	
	Cross-section for conductor connection	Type	solid, H05(07) V-U

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Technical data

	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.	0.8 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.	0.8 Nm
Connection specification	Screw connection		
Cross-section for conductor connection	Type	flexible, H05(07) V-K	
	min.	0.5 mm²	
	max.	2.5 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.	0.8 Nm

General

Number of poles	10	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	500 V
Rated DC voltage	500 V	Nominal current	24 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	1.33 mΩ
Power loss in accordance with IEC 60947-7-x	0.77 W		

Classifications

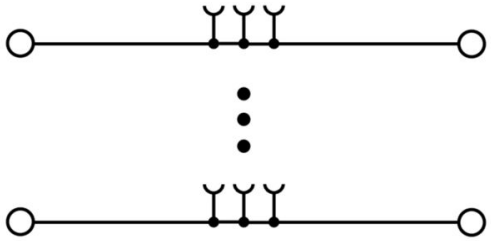
ETIM 8.0	EC001284	ETIM 9.0	EC001284
ETIM 10.0	EC001284	ECLASS 14.0	27-14-11-06
ECLASS 15.0	27-14-11-06		

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Drawings



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Accessories

Cross-connections



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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	

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	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	

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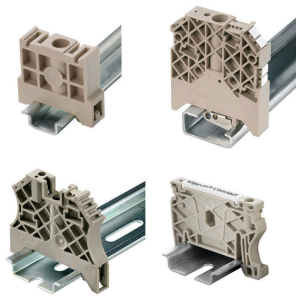
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Accessories

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	

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	

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Accessories

Blank



The WAD connector marker is suitable for W-series terminals and for the WEW 35/2 and ZEW 35/2 end brackets. The markers are available as blank markers, with custom printing or standard print with lightning symbol. The WAD MultiCard markers are suitable for labelling with PrintJet CONNECT printers.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	WAD 5 MC NE WS	Version
Order No.	1112910000	Group markers, Cover, 33.3 x 5 mm, Pitch in mm (P): 5.00 WDU 2.5,
GTIN (EAN)	4032248891689	WEW 35/2, ZEW 35/2, white
Qty.	48 ST	
Type	WAD 5 MC NE GE	Version
Order No.	1112920000	Group markers, Cover, 33.3 x 5 mm, Pitch in mm (P): 5.00 WDU 2.5,
GTIN (EAN)	4032248891771	WEW 35/2, ZEW 35/2, yellow
Qty.	48 ST	
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	

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	

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Accessories

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	

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	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	

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Accessories

Cross-connections



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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	
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



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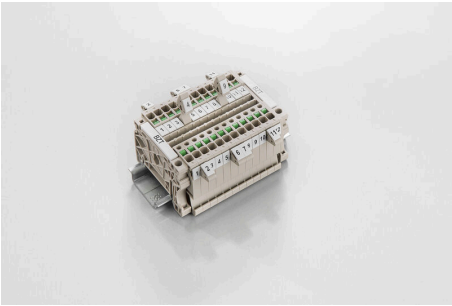
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Accessories

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	

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.
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- 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

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Accessories

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	

Cross-connections



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General ordering data

Type	WQV 16-2.5	Version
Order No.	1063900000	Cross-connector (terminal), when screwed in, yellow, 76 A, Number of
GTIN (EAN)	4008190112158	poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 13 mm
Qty.	10 ST	

End plates and partition plates



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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	

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Accessories

Cross-connections



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General ordering data

Type	WQV 16N-2.5	Version
Order No.	1073100000	Cross-connector (terminal), when screwed in, yellow, 76 A, Number of
GTIN (EAN)	4008190489847	poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 13 mm
Qty.	10 ST	

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