WDU 2.5/1.5/ZR SW

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, black, 2.5 mm², 24 A, 800 V, Number of connections: 1, Number of levels: 1, TS 35, V-0, Wemid, 130 °C
Order No.	1833840000
Type	WDU 2.5/1.5/ZR SW
GTIN (EAN)	4050118128925
Qty.	50 pc(s).

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Weidmüller

WDU 2.5/1.5/ZR SW

Technical data

Dimensions and weights

Depth	46.5 mm	Depth (inches)	1.831 inch
Height	60 mm	Height (inches)	2.362 inch
Width	5.1 mm	Width (inches)	0.201 inch
Net weight	7.54 g		

Temperatures

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

Material data

Material	Wemid	Colour	black
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, Additional connection, 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	3	Number of potentials per tier	1
Levels cross-connected internally	No	PE connection	No
Rail	TS 35	N-function	No
PE function	No	PEN function	No

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

Cross-section for connected wire, solid, two clampable wires, max.	2.5 mm²	Cross-section for connected wire, solid, two clampable wires, min.	0.5 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	1.5 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	0.5 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm²	Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm²

Additional technical data

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

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WDU 2.5/1.5/ZR SW

Technical data

Conductors for clamping (additional connection)

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

Conductors for clamping (rated connection)

Blade size	0.6 x 3.5 mm

WDU 2.5/1.5/ZR SW

Technical data

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
		Recommended wire-end ferrule		
	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
		Recommended wire-end ferrule		
	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
		Recommended wire-end ferrule		

Clamping range, max.	4 mm²
Clamping range, min.	0.05 mm²
Clamping screw	M 2.5
Connection cross-section, stranded, max.	4 mm²
Connection cross-section, stranded, min.	1.5 mm²
Connection direction	on side
Gauge to IEC 60947-1	A3, A1
Number of connections	1
Stripping length	10 mm
Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.4 Nm
Torque level with DMS electric screw-driver	1
Twin wire-end ferrules, max.	1.5 mm²
Twin wire-end ferrules, min.	0.5 mm²
Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 12
Wire connection cross section AWG, min.	AWG 30
Wire connection cross section, finely stranded, max.	4 mm²

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WDU 2.5/1.5/ZR SW

Technical data

Wire connection cross section, finely stranded, 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 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, solid core, max.	4 mm²
Wire connection cross-section, solid core, min.	0.5 mm²

General

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

Rating data

Rated cross-section	2.5 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Rated 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	Pollution severity	3
Surge voltage category	III		

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	12 AWG
Conductor size Factory wiring min. (UR)	30 AWG	Conductor size Field wiring max. (UR)	12 AWG
Conductor size Field wiring min. (UR)	30 AWG	Current size B (UR)	20 A
Current size C (UR)	20 A	Voltage size B (UR)	300 V
Voltage size C (UR)	300 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
ECLASS 14.0	27-25-01-01		

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

WDU 2.5/1.5/ZR SW

Technical data

Approvals

Approvals

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

Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity
	IECEx Certificate
	UKCA Ex Attestation of Conformity
	POLSKIREJ certificate
	UKCA Ex Certificate
	CE Declaration of Conformity
	ATEX Certificate
	UKCA declaration of conformity
	Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
User Documentation	NTI WDU/WPE 2.5 1.5 ZR
	StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format

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Drawings

1,5 mm^2

2,5 mm^2

1,5 mm^2

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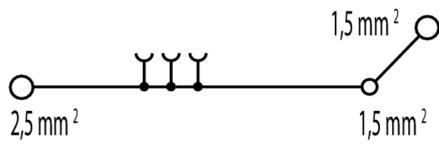
WDU 2.5/1.5/ZR SW

Accessories

W-Series

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 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 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 pc(s).		
Type	BZT 1 ZA WS 10/5	Version	
Order No.	1805520000	Accessories, Marker holder	
GTIN (EAN)	4032248270248		
Qty.	100 pc(s).		

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WDU 2.5/1.5/ZR SW

Accessories

Blank

WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.

WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

• 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	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 pc(s).		

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 pc(s).		

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WDU 2.5/1.5/ZR SW

Accessories

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.	1,000 pc(s).		

Shielding connection

With the LS 2.8 WDU2.5-10, many feed-through modular terminal blocks from the W series can be converted very easily. Inserting the LS 2.8 WDU2.5-10 allows the cable shielding braid to be looped through directly at the terminal block by soldering or using a suitable flat cable lug.

General ordering data

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

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Weidmüller

## WDU 2.5/1.5/ZR SW

Accessories

Testsockets
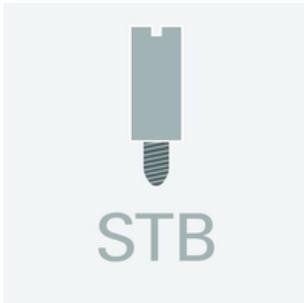
Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

Type	STB 8.5/D4/2.3/M2.5 AKZ	Version
Order No.	0215700000	Accessories, Socket
GTIN (EAN)	4008190184872	
Qty.	50 pc(s).	

2.5 mm²
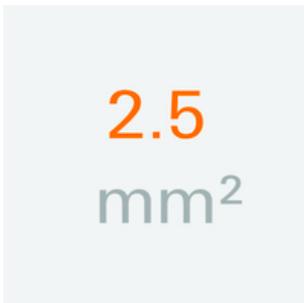
Screwable cross-connections are easy to mount and de mount. Thanks to the big contact surface, even high currents can be transmitted with maximum contact reliability.

General ordering data

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 pc(s).	
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 pc(s).	
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 pc(s).	
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 pc(s).	

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WDU 2.5/1.5/ZR SW

Accessories

2.5-10 mm²

2.5-10 mm²

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 16+35 WTW 2.5-10 BL	Version	
Order No.	1050180000	End and partition plate for terminals, blue, Height: 56 mm, Width: 1.5 mm, V-0, Wemid	
GTIN (EAN)	4008190013899		
Qty.	20 pc(s).		
Type	WAP 16+35 WTW 2.5-10	Version	
Order No.	1050100000	End and partition plate for terminals, dark beige, Height: 56 mm, Width: 1.5 mm, V-0, Wemid	
GTIN (EAN)	4008190079901		
Qty.	20 pc(s).		
Type	WAP 2.5-10/0.5MM	Version	
Order No.	1966380000	End plate (terminals), dark beige, Height: 54.5 mm, Width: 0.35 mm, V-0, Wemid	
GTIN (EAN)	4032248888616		
Qty.	50 pc(s).		
Type	WAP 2.5-10	Version	
Order No.	1050000000	End plate (terminals), dark beige, Height: 56 mm, Width: 1.5 mm, V-0, Wemid	
GTIN (EAN)	4008190103149		
Qty.	50 pc(s).		
Type	WAP 2.5-10 BL	Version	
Order No.	1050080000	End plate (terminals), blue, Height: 56 mm, Width: 1.5 mm, V-0, Wemid	
GTIN (EAN)	4008190136611		
Qty.	50 pc(s).		

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WDU 2.5/1.5/ZR SW

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 pc(s).		

W-Series
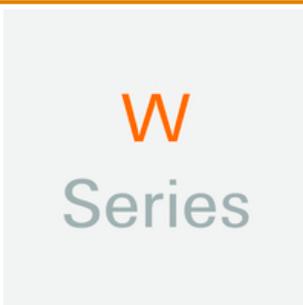
Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

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 pc(s).		
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 pc(s).		

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WDU 2.5/1.5/ZR SW

Accessories

2.5 mm²

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	ZQV 2.5N/3 GE	Version	
Order No.	1693810000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883645		
Qty.	60 pc(s).		
Type	ZQV 2.5N/10 GE	Version	
Order No.	1693880000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883720		
Qty.	20 pc(s).		
Type	ZQV 2.5N/2 GE	Version	
Order No.	1693800000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883621		
Qty.	60 pc(s).		
Type	ZQV 2.5N/20 GE	Version	
Order No.	1909000000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4032248535613		
Qty.	20 pc(s).		
Type	ZQV 2.5N/4 GE	Version	
Order No.	1693820000	W-Series, Cross-connector, 24 A	
GTIN (EAN)	4008190883652		
Qty.	60 pc(s).		

W-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	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 pc(s).		

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WDU 2.5/1.5/ZR SW

Accessories

WQB

General ordering data

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 pc(s).		
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 pc(s).		
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 pc(s).		
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 pc(s).		
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 pc(s).		
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 pc(s).		