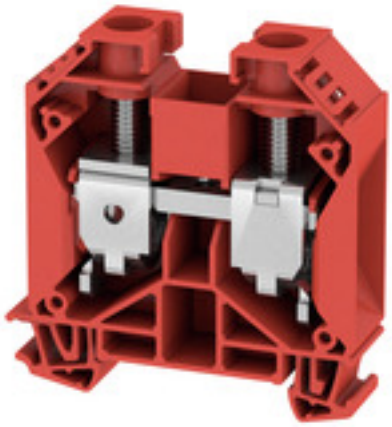
WDU 35 RT

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	Feed-through terminal block, Screw connection, 35 mm², 1000 V, 125 A, Number of connections: 2
Order No.	1298080000
Type	WDU 35 RT
GTIN (EAN)	4050118096330
Qty.	40 pc(s).

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Technical data

Dimensions and weights

Depth	62.5 mm	Depth (inches)	2.461 inch
Depth including DIN rail	63 mm	Height	60 mm
Height (inches)	2.362 inch	Width	16 mm
Width (inches)	0.63 inch	Net weight	51.3 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	red
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)	115 A
Wire cross section max. (ATEX)	35 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	115 A	Wire cross section max. (IECEX)	35 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 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
Rail	TS 35	N-function	No
PE function	No	PEN function	Yes

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

Cross-section for connected wire, stranded, two clampable wires, max.	16 mm²	Cross-section for connected wire, stranded, two clampable wires, min.	16 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	16 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	2.5 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	2.5 mm²	Wire cross-section, finely stranded, two clampable wires, max.	16 mm²

Additional technical data

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

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

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Technical data

Conductors for clamping (rated connection)

Blade size	6.5 x 1.2 mm			
Clampable conductor	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	2.5 mm²	
		max.	16 mm²	
		nominal	35 mm²	
	wire end ferrule	Stripping length	min.	18 mm
			max.	18 mm
			nominal	18 mm
		Tightening torque	min.	4 Nm
			max.	5 Nm
		Recommended wire-end ferrule		
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	stranded, H07V-R	
		min.	2.5 mm²	
		max.	50 mm²	
		nominal	35 mm²	
	wire end ferrule	Stripping length	min.	18 mm
			max.	18 mm
			nominal	18 mm
		Tightening torque	min.	4 Nm
			max.	5 Nm
		Recommended wire-end ferrule		
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	flexible, H05(07) V-K	
		min.	2.5 mm²	
		max.	35 mm²	
		nominal	35 mm²	
	wire end ferrule	Stripping length	min.	18 mm
			max.	18 mm
			nominal	18 mm
		Tightening torque	min.	4 Nm
			max.	5 Nm
		Recommended wire-end ferrule		
Clamping range, max.	50 mm²			
Clamping range, min.	2.5 mm²			
Clamping screw	M 6			
Connection cross-section, stranded, max.	50 mm²			
Connection cross-section, stranded, min.	2.5 mm²			
Connection direction	on side			
Gauge to IEC 60947-1	B8, B9			
Number of connections	2			
Stripping length	18 mm			
Tightening torque, max.	5 Nm			
Tightening torque, min.	4 Nm			
Twin wire-end ferrules, max.	16 mm²			
Twin wire-end ferrules, min.	1.5 mm²			
Type of connection	Screw connection			
Wire connection cross section AWG, max.	AWG 2			
Wire connection cross section AWG, min.	AWG 12			

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Technical data

Wire connection cross section, finely stranded, max.	35 mm²
Wire connection cross section, finely stranded, min.	2.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	35 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	2.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	35 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	2.5 mm²
Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	2.5 mm²

General

Rail	TS 35	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 2	Wire connection cross section AWG, min.	AWG 12

Rating data

Rated cross-section	35 mm²	Rated voltage	1,000 V
Rated DC voltage	1,000 V	Rated current	125 A
Current at maximum wires	150 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.26 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	4 W	Pollution severity	3
Surge voltage category	III		

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

Environmental Product Compliance

REACH SVHC	/

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Technical data

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity IECEx Certificate UKCA Ex Attestation of Conformity CB Testreport CB Certificate POLSKIREJ certificate UKCA Ex Certificate 16-AV4BO-0265U. CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI WDU/WPE 35.pdf StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format

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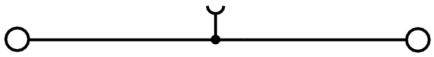
Drawings



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Accessories

Step-down bridges

General ordering data

Type	WQV 35-2.5	Version
Order No.	1064100000	Cross-connector (terminal), when screwed in, Number of poles: 3,
GTIN (EAN)	4008190142285	Pitch in mm (P): 16.00, Insulated: Yes, 41 A, yellow
Qty.	10 pc(s).	
Type	WQV 35-10/6/4	Version
Order No.	1068000000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190141011	Pitch in mm (P): 16.00, Insulated: Yes, 57 A, yellow
Qty.	10 pc(s).	

PEN bridges

Power feed-in
Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

General ordering data

Type	WQB-PEN 35	Version
Order No.	1060100000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190089870	Pitch in mm (P): 16.00, Insulated: No, 135 A, Silver grey
Qty.	10 pc(s).	

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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 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), Intermediate plate, 86 mm x 62 mm, dark
GTIN (EAN)	4008190140175	beige
Qty.	20 pc(s).	

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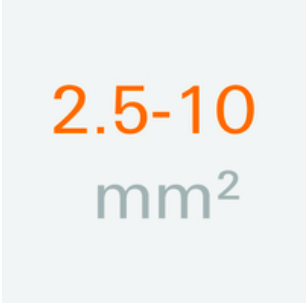
Accessories

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	Version
Order No.	1050100000	End and partition plate for terminals, End plate, 56 mm x 1.5 mm, dark
GTIN (EAN)	4008190079901	beige
Qty.	20 pc(s).	
Type	WAP 16+35 WTW 2.5-10 BL	Version
Order No.	1050180000	End and partition plate for terminals, End plate, 56 mm x 1.5 mm, blue
GTIN (EAN)	4008190013899	
Qty.	20 pc(s).	

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).	

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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 35/1	Version
Order No.	1059000000	End bracket, Wemid, dark beige, Rail: TS 35, when screwed in
GTIN (EAN)	4008190172282	
Qty.	50 pc(s).	

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).	

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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 12 MC NE GE	Version
Order No.	2445080000	Group markers, Cover, 36.2 x 11.9 mm, WDU 16, WDU 35, yellow
GTIN (EAN)	4050118458213	
Qty.	32 pc(s).	
Type	WAD 12 MC NE WS	Version
Order No.	2445070000	Group markers, Cover, 36.2 x 11.9 mm, WDU 16, WDU 35, white
GTIN (EAN)	4050118458220	
Qty.	32 pc(s).	

35 mm²

Power feed-in
Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

General ordering data

Type	WQV 35/10	Version
Order No.	1053160000	Cross-connector (terminal), when screwed in, Number of poles: 10,
GTIN (EAN)	4008190026028	Pitch in mm (P): 16.00, Insulated: Yes, 112 A, yellow
Qty.	10 pc(s).	
Type	WQV 35/4	Version
Order No.	1055460000	Cross-connector (terminal), when screwed in, Number of poles: 4,
GTIN (EAN)	4008190130275	Pitch in mm (P): 16.00, Insulated: Yes, 112 A, yellow
Qty.	50 pc(s).	
Type	WQV 35/3	Version
Order No.	1055360000	Cross-connector (terminal), when screwed in, Number of poles: 3,
GTIN (EAN)	4008190007249	Pitch in mm (P): 16.00, Insulated: Yes, 112 A, yellow
Qty.	50 pc(s).	

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Accessories

Type	WQV 35/2	Version
Order No.	1053060000	Cross-connector (terminal), when screwed in, Number of poles: 2,
GTIN (EAN)	4008190097349	Pitch in mm (P): 16.00, Insulated: Yes, 138 A, yellow
Qty.	50 pc(s).	

ZGB pivotable group tag holder

The ZGB 15 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 15.
The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.
Inlay tags and protective strips can be found under "Accessories".

General ordering data

Type	ZGB 30	Version
Order No.	1611930000	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190002251	Weidmueller, white
Qty.	20 pc(s).	

Type	ZGB 15	Version
Order No.	1636530000	Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190297053	Weidmueller, white
Qty.	20 pc(s).	

SchT group marker carrier

The SchT 5 S group tag carriers are clipped directly onto the TS 32 mounting rail (G-rail) or the TS 35 mounting rail (top-hat rail). It is therefore possible to label the terminal strip irrespective of the terminal and the type of terminal.
SchT 5 and SchT 5 S are fitted with ESO 5, STR 5 protective strips.
The SchT 7 is a hinged group tag carrier for inlay tags which enables easy access to the clamping screw.
The SchT 7 is fitted with ESO 7, STR 7 protective strips or DEK 5.
Inlay tags and protective strips can be found under "Accessories".

General ordering data

Type	SCHT 7	Version
Order No.	0517960000	SCHT, Terminal marker, 39.3 x 8 mm, Pitch in mm (P): 7.00
GTIN (EAN)	4008190001742	Weidmueller, white
Qty.	20 pc(s).	

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Accessories

Marker holder

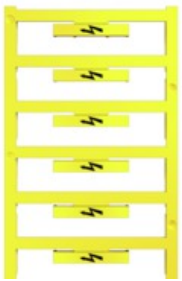
The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snaped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found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

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

With lightning flash



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 12 MC B GE/SW	Version
Order No.	2445090000	Group markers, Cover, 36.2 x 11.9 mm, WDU 16, WDU 35, yellow
GTIN (EAN)	4050118457896	
Qty.	32 pc(s).	

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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 16/D7/4/M4 SAK35	Version
Order No.	0140200000	SAK Series, Socket
GTIN (EAN)	4008190134884	
Qty.	50 pc(s).	

Type	STB 14/D6/4/M3 SAK10	Version
Order No.	0169900000	Accessories, Socket
GTIN (EAN)	4008190076665	
Qty.	50 pc(s).	