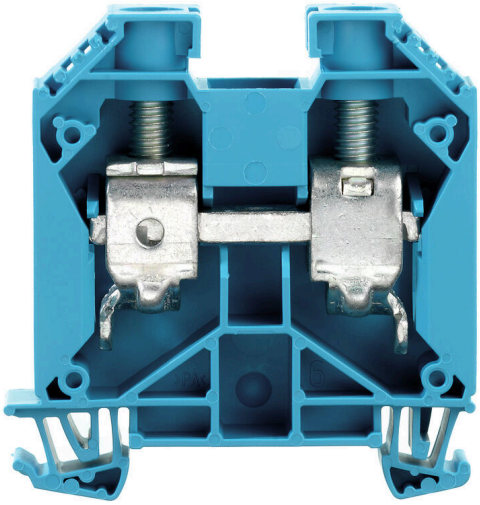
Data sheet

WDU 35 BL

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



More and more components need to be housed within a confined space, in switchgear and panels. As part of the power feed-in, connecting conductors is becoming increasingly challenging, especially for large cross-sections. Our comprehensive range of connection solutions also enables convenient wiring in challenging space conditions. The compact design and the combination of many practical handling benefits make the supply of power to switchgear and panels simple, efficient, and space-saving.

General ordering data

Version	Feed-through terminal block, Screw connection, blue, 35 mm², 125 A, 1000 V, Number of connections: 2
Order No.	1020580000
Type	WDU 35 BL
GTIN (EAN)	4008190047160
Qty.	40 items

Data sheet

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Technical data

Approvals

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

Dimensions and weights

Depth	62.5 mm	Depth (inches)	2.4606 inch
Depth including DIN rail	63 mm	Height	60 mm
Height (inches)	2.3622 inch	Width	16 mm
Width (inches)	0.6299 inch	Net weight	51.78 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	0,38 kg CO2 eq.

Material data

Basic material	Wemid	Colour	blue
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

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Technical data

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	Yes
PE function	No	PEN function	Yes

Additional technical data

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

CSA rating data

Voltage size C (CSA)	600 V	Current size C (CSA)	150 A
Certificate No. (CSA)	200039-1057876	Wire cross section min. (CSA)	12 AWG

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B8, B9
Wire connection cross section AWG, max.	AWG 2
Connection direction	on side
Tightening torque, max.	5 Nm
Tightening torque, min.	4 Nm
Stripping length	18 mm
Type of connection	Screw connection
Number of connections	2
Clamping range, max.	50 mm²
Clamping range, min.	2.5 mm²
Clamping screw	M 6
Blade size	6.5 x 1.2 mm
Wire connection cross section AWG, min.	AWG 12
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, 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, max.	35 mm²
Wire connection cross section, finely stranded, min.	2.5 mm²
Connection cross-section, stranded, max.	50 mm²
Connection cross-section, stranded, min.	2.5 mm²
Twin wire-end ferrules, max.	16 mm²
Twin wire-end ferrules, min.	1.5 mm²
Wire connection cross-section, solid core, max.	16 mm²

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Technical data

Wire connection cross-section, solid core, min.	2.5 mm²			
Connection cross-section, finely stranded, min.	2.5 mm²			
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
	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
	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

General

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

Rating data

Rated cross-section	35 mm²	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal 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	4.00 W	Surge voltage category	III
Pollution severity	3		

UL rating data

Conductor size Factory wiring max. (UR)	0 AWG	Current size C (UR)	150 A
Voltage size C (UR)	1000 V	Conductor size Factory wiring min. (UR)	12 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	12 AWG
Conductor size Field wiring max. (UR)	0 AWG		

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Technical data

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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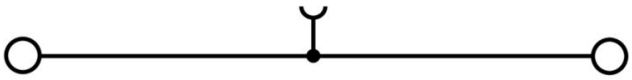
Drawings



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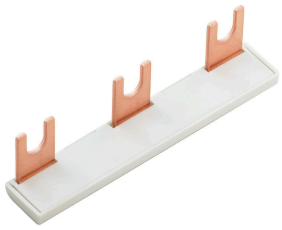
Accessories

Cross connector



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 35/2	Version
Order No.	1053060000	Cross-connector (terminal), when screwed in, yellow, 138 A, Number
GTIN (EAN)	4008190097349	of poles: 2, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9.85 mm
Qty.	50 ST	
Type	WQV 35/3	Version
Order No.	1055360000	Cross-connector (terminal), when screwed in, yellow, 112 A, Number
GTIN (EAN)	4008190007249	of poles: 3, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9.85 mm
Qty.	50 ST	
Type	WQV 35/4	Version
Order No.	1055460000	Cross-connector (terminal), when screwed in, yellow, 112 A, Number
GTIN (EAN)	4008190130275	of poles: 4, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9.85 mm
Qty.	50 ST	
Type	WQV 35/10	Version
Order No.	1053160000	Cross-connector (terminal), when screwed in, yellow, 112 A, Number
GTIN (EAN)	4008190026028	of poles: 10, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9.85 mm
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	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	

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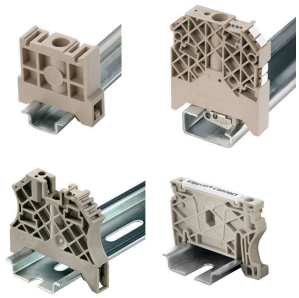
Accessories

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 35/1	Version
Order No.	1059000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C
GTIN (EAN)	4008190172282	
Qty.	50 ST	

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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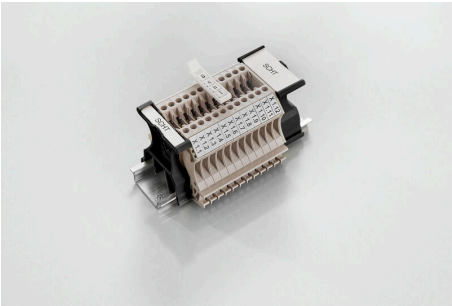
Accessories

SchT group marker carrier

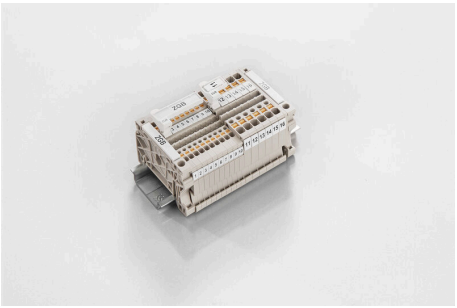


The SchT 5 S group tag carriers are clipped directly onto the TS 32 mounting rail (G-rail) or the TS 35 mounting rail (top-hat rail). It is therefore possible to label the terminal strip irrespective of the terminal and the type of terminal. SchT 5 and SchT 5 S are fitted with ESO 5, STR 5 protective 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 ST	

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 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 ST	
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 ST	

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Accessories

End plates and partition plates

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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	

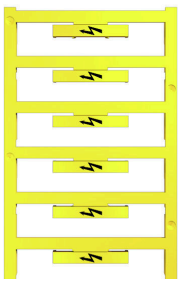
Blank

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 ST	
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 ST	

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.

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Accessories

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 ST	

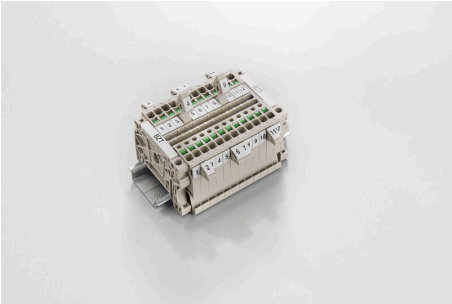
Testadapter and testsockets

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 14/D6/4/M3 SAK10	Version
Order No.	0169900000	Accessories, Socket
GTIN (EAN)	4008190076665	
Qty.	50 ST	
Type	STB 16/D7/4/M4 SAK35	Version
Order No.	0140200000	SAK Series, Socket
GTIN (EAN)	4008190134884	
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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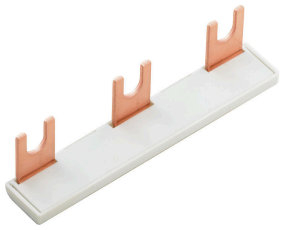
Accessories

Cross connector



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General ordering data

Type	WQV 35-10/6/4	Version
Order No.	1068000000	Cross-connector (terminal), when screwed in, yellow, 57 A, Number of
GTIN (EAN)	4008190141011	poles: 2, Pitch in mm (P): 16.00, Insulated: Yes, Width: 13 mm
Qty.	10 ST	
Type	WQV 35-2.5	Version
Order No.	1064100000	Cross-connector (terminal), when screwed in, yellow, 41 A, Number of
GTIN (EAN)	4008190142285	poles: 3, Pitch in mm (P): 16.00, Insulated: Yes, Width: 13 mm
Qty.	10 ST	
Type	WQV 35-4/6	Version
Order No.	1064200000	Cross-connector (terminal), when screwed in, yellow, 41 A, Number of
GTIN (EAN)	4008190072919	poles: 2, Pitch in mm (P): 16.00, Insulated: Yes, Width: 13 mm
Qty.	10 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.
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	

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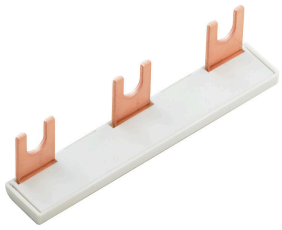
Accessories

Cross connector



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General ordering data

Type	WQB-PEN 35	Version
Order No.	1060100000	Cross-connector (terminal), when screwed in, Silver grey, 135 A,
GTIN (EAN)	4008190089870	Number of poles: 2, Pitch in mm (P): 16.00, Insulated: No, Width:
Qty.	10 ST	24.6 mm