

WDU 16 BL**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, blue, 16 mm ² , 76 A, 1000 V, Number of connections: 2
Order No.	1020480000
Type	WDU 16 BL
GTIN (EAN)	4008190126261
Qty.	50 items

WDU 16 BL

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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	11.9 mm
Width (inches)	0.4685 inch	Net weight	29.3 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	0.461 kg CO2eq.	

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)	76 A
Wire cross section max. (ATEX)	16 mm ²	Max. voltage (IECEX)	690 V
Current (IECEX)	76 A	Wire cross section max. (IECEX)	16 mm ²
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
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

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CSA rating data

Wire cross section max. (CSA)	6 AWG	Voltage size C (CSA)	600 V
Current size C (CSA)	85 A	Certificate No. (CSA)	200039-1057876
Wire cross section min. (CSA)	18 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B7			
Wire connection cross section AWG, max.	AWG 4			
Connection direction	on side			
Tightening torque, max.	4 Nm			
Tightening torque, min.	3 Nm			
Stripping length	16 mm			
Type of connection	Screw connection			
Number of connections	2			
Clamping range, max.	25 mm ²			
Clamping range, min.	0.82 mm ²			
Clamping screw	M 5			
Blade size	1.0 x 5.5 mm			
Wire connection cross section AWG, min.	AWG 18			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm ²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.82 mm ²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	16 mm ²			
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.82 mm ²			
Wire connection cross section, finely stranded, max.	25 mm ²			
Wire connection cross section, finely stranded, min.	0.82 mm ²			
Connection cross-section, stranded, max.	25 mm ²			
Connection cross-section, stranded, min.	0.82 mm ²			
Twin wire-end ferrules, max.	10 mm ²			
Twin wire-end ferrules, min.	1.5 mm ²			
Wire connection cross-section, solid core, max.	16 mm ²			
Wire connection cross-section, solid core, min.	0.82 mm ²			
Connection cross-section, finely stranded, min.	0.82 mm ²			
Clampable conductor	Connection specification		Screw connection	
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	1.5 mm ²	
		max.	16 mm ²	
		nominal	16 mm ²	
	wire end ferrule	Stripping length	min.	16 mm

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			max. 16 mm
			nominal 16 mm
	Tightening torque	min. 3 Nm	
		max. 4 Nm	
Connection specification	Screw connection		
Cross-section for conductor connection	Type	stranded, H07V-R	
	min.	1.5 mm ²	
	max.	25 mm ²	
	nominal	16 mm ²	
wire end ferrule	Stripping length	min. 16 mm	
		max. 16 mm	
		nominal 16 mm	
	Tightening torque	min. 3 Nm	
		max. 4 Nm	
Connection specification	Screw connection		
Cross-section for conductor connection	Type	flexible, H05(07) V-K	
	min.	1.5 mm ²	
	max.	25 mm ²	
	nominal	16 mm ²	
wire end ferrule	Stripping length	min. 16 mm	
		max. 16 mm	
		nominal 16 mm	
	Tightening torque	min. 3 Nm	
		max. 4 Nm	

General

Wire connection cross section AWG, max.	AWG 4	Wire connection cross section AWG, min.	AWG 18
Standards	IEC 60947-7-1	Mounting rail	TS 35

Rating data

Rated cross-section	16 mm ²	Rated voltage	1000 V
Rated DC voltage	1000 V	Nominal current	76 A
Current at maximum wires	101 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.42 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	2.43 W	Pollution severity	3

UL rating data

Conductor size Factory wiring max. (UR)	4 AWG	Current size C (UR)	85 A
Voltage size C (UR)	600 V	Conductor size Factory wiring min. (UR)	18 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	18 AWG
Conductor size Field wiring max. (UR)	4 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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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 16/2	Version
Order No.	1053260000	Cross-connector (terminal), when screwed in, yellow, 101 A, Number
GTIN (EAN)	4008190036553	of poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 10.4 mm
Qty.	50 ST	
Type	WQV 16/3	Version
Order No.	1055160000	Cross-connector (terminal), when screwed in, yellow, 101 A, Number
GTIN (EAN)	4008190149888	of poles: 3, Pitch in mm (P): 11.90, Insulated: Yes, Width: 10.4 mm
Qty.	50 ST	
Type	WQV 16/4	Version
Order No.	1055260000	Cross-connector (terminal), when screwed in, yellow, 101 A, Number
GTIN (EAN)	4008190037000	of poles: 4, Pitch in mm (P): 11.90, Insulated: Yes, Width: 10.4 mm
Qty.	50 ST	
Type	WQV 16/10	Version
Order No.	1053360000	Cross-connector (terminal), when screwed in, yellow, 101 A, Number
GTIN (EAN)	4008190010836	of poles: 10, Pitch in mm (P): 11.90, Insulated: Yes, Width: 10.4 mm
Qty.	10 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 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	

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 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 snapped 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	

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Accessories

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.

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	

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 ST	

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Accessories

Blank

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General ordering data

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	
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	

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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 poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 13 mm
GTIN (EAN)	4008190112158	
Qty.	10 ST	
Type	WQB-PEN 16	Version
Order No.	1060200000	Cross-connector (terminal), when screwed in, Silver grey, 76 A, Number of poles: 2, Pitch in mm (P): 12.00, Insulated: No, Width: 17.6 mm
GTIN (EAN)	4008190112653	
Qty.	10 ST	