

## WDU 35N BL

**Weidmüller Interface GmbH & Co. KG**

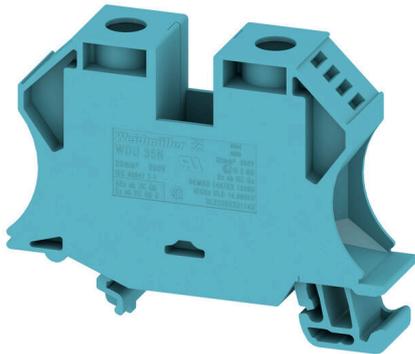
Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 mm <sup>2</sup> , 125 A, 500 V, Number of connections: 2
Order No.	<a href="#">1040480000</a>
Type	WDU 35N BL
GTIN (EAN)	4008 190353834
Qty.	20 items

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## Technical data

### Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (UR)	E60693

### Dimensions and weights

Depth	50.5 mm	Depth (inches)	1.9882 inch
Depth including DIN rail	51 mm	Height	66 mm
Height (inches)	2.5984 inch	Width	16 mm
Width (inches)	0.6299 inch	Net weight	48.15 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	0,384 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)	352 V	Current (ATEX)	110 A
Wire cross section max. (ATEX)	35 mm <sup>2</sup>	Max. voltage (IECEX)	352 V
Current (IECEX)	110 A	Wire cross section max. (IECEX)	35 mm <sup>2</sup>
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, in closed state	End cover plate required	No
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

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## Technical data

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

Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	6 mm <sup>2</sup>	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	2.5 mm <sup>2</sup>
Wire cross-section, finely stranded, two clampable wires, max.	6 mm <sup>2</sup>	Wire connection cross section, finely stranded, two clampable wires, min.	2.5 mm <sup>2</sup>

## Additional technical data

Open sides	closed	Number of similar terminals	1
Explosion-tested version	No	Type of mounting	Snap-on

## CSA rating data

Wire cross section max. (CSA)	2 AWG	Certificate No. (CSA)	12400-388
Voltage size B (CSA)	300 V	Current size B (CSA)	120 A
Voltage size D (CSA)	300 V	Current size D (CSA)	10 A
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	B9	Wire connection cross section AWG, max.	AWG 10
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 mm <sup>2</sup>	Clamping range, min.	2.5 mm <sup>2</sup>
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 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	2.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	35 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	35 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	2.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	50 mm <sup>2</sup>
Connection cross-section, stranded, min. 2.5 mm <sup>2</sup>		Wire connection cross-section, solid core, max.	16 mm <sup>2</sup>
Wire connection cross-section, solid core, min.	2.5 mm <sup>2</sup>	Connection cross-section, finely stranded, min.	2.5 mm <sup>2</sup>

## General

Wire connection cross section AWG, max.	AWG 10	Wire connection cross section AWG, min.	AWG 12
Standards	IEC 60947-7-1	Mounting rail	TS 35

## Rating data

Rated cross-section	35 mm <sup>2</sup>	Rated voltage	500 V
Rated DC voltage	500 V	Nominal current	125 A

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## Technical data

Current at maximum wires	150 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	6 kV
Power loss in accordance with IEC 60947-7-x	0.77 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		

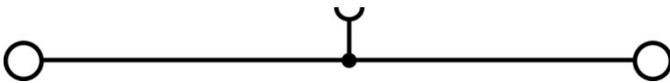
## Important note

Product information 1000 V UL and CSA for usage groups B and C: can be used with isolating DIN rails and when using WTW EN partitions

## 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		

**Drawings**



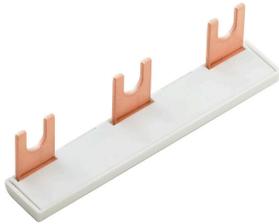
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## Accessories

### 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 35N/2	Version
Order No.	<a href="#">1079200000</a>	Cross-connector (terminal), when screwed in, yellow, 125 A, Number
GTIN (EAN)	4008190378295	of poles: 2, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9 mm
Qty.	20 ST	
Type	WQV 35N/3	Version
Order No.	<a href="#">1079300000</a>	Cross-connector (terminal), when screwed in, yellow, 125 A, Number
GTIN (EAN)	4008190378288	of poles: 3, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9 mm
Qty.	20 ST	
Type	WQV 35N/4	Version
Order No.	<a href="#">1079400000</a>	Cross-connector (terminal), when screwed in, yellow, 125 A, Number
GTIN (EAN)	4008190378271	of poles: 4, Pitch in mm (P): 16.00, Insulated: Yes, Width: 9 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	WTW EN	Version
Order No.	<a href="#">1058800000</a>	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

### End bracket

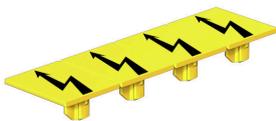


Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

Type	WEW 35/2	Version	
Order No.	<a href="#">1061200000</a>	End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C	
GTIN (EAN)	4008190030230		
Qty.	50 ST		

### Warning cover



Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

### General ordering data

Type	WAD 16N GE BED	Version	
Order No.	<a href="#">1083600000</a>	Terminal cover, yellow, PA 66, Height: 39 mm, Width: 15.8 mm,	
GTIN (EAN)	4032248032648	Depth: 5.51 mm, V-2	
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.

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## Accessories

## General ordering data

Type	DEK 5/5 MC NE WS	Version
Order No.	<a href="#">1609801044</a>	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.	<a href="#">1609860000</a>	WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190203481	Allen-Bradley, white
Qty.	720 ST	

## 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.	<a href="#">0517960000</a>	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.	<a href="#">1636530000</a>	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.	<a href="#">1611930000</a>	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

### 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.	<a href="#">0140200000</a>	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.	<a href="#">1805490000</a>	Accessories, Marker holder	
GTIN (EAN)	4032248270231		
Qty.	100 ST		
Type	BZT 1 ZA WS 10/5	Version	
Order No.	<a href="#">1805520000</a>	Accessories, Marker holder	
GTIN (EAN)	4032248270248		
Qty.	100 ST		

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## Accessories

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### 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.

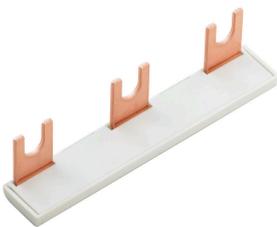
Your benefits with MultiMark

- 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.	<a href="#">2007190000</a>	WS, Terminal marker, 12 x 5 mm, Weidmueller, white	
GTIN (EAN)	4050118392036		
Qty.	800 ST		

### Cross connector



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#### General ordering data

Type	WQB PEN 35N	Version	
Order No.	<a href="#">1079500000</a>	Cross-connector (terminal), when screwed in, Silver grey, 125 A,	
GTIN (EAN)	4008190370121	Number of poles: 2, Pitch in mm (P): 16.00, Insulated: No, Width:	
Qty.	10 ST	24.6 mm	