

**W-Series
WDU 6 GN**

Weidmüller Interface GmbH & Co. KG
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**Klippon® Connect with clamping yoke Technology**

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

Type	WDU 6 GN
Order No.	1020290000
Version	Feed-through terminal, Screw connection, 6 mm ² , 800 V, 41 A, Green
GTIN (EAN)	4008190861292
Qty.	100 pc(s).

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Technical data**Dimensions and weights**

Width	7.9 mm	Width (inches)	0.311 inch
Height	60 mm	Height (inches)	2.362 inch
Depth	46.5 mm	Depth (inches)	1.831 inch
Depth including DIN rail	47 mm	Weight	14.8 g
Net weight	14.06 g		

Temperatures

Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C
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Material data

Material	Wemid	Colour	Green
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	ATEX certificate	ACF-ATEX_4786180920.pdf
Certificate No. (IECEX)	IECEXULD14.0005U	IEC Ex certificate	IECEXULD14.0005U_e.pdf
Max. voltage (ATEX)	690 V	Current (ATEX)	41 A
Wire cross section max. (ATEX)	6 mm ²	Max. voltage (IECEX)	550 V
Current (IECEX)	41 A	Wire cross section max. (IECEX)	6 mm ²
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	Ex e II
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
No. 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	No
PE function	No	PEN function	No

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

Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm ²	Wire cross-section, finely stranded, two clampable wires, max.	2.5 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	0.5 mm ²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	2.5 mm ²

Additional technical data

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

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Technical data**CSA rating data**

Certificate No. (CSA)	200039-1057876	Current size C (CSA)	50 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	8 AWG
Wire cross section min. (CSA)	22 AWG		

Conductors for clamping (rated connection)

Blade size	0.8 x 4.0 mm	Clamping range, rated connection, max.	10 mm ²
Clamping range, rated connection, min.	0.22 mm ²	Clamping screw	M 3.5
Connection direction		Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²
	on side	Number of connections	2
Gauge to IEC 60947-1	A5	Tightening torque, max.	1.6 Nm
Stripping length	12 mm	Torque level with DMS electric screwdriver	3
Tightening torque, min.	0.8 Nm	Twin wire-end ferrules, min.	0.5 mm ²
Twin wire-end ferrules, max.	4 mm ²	Wire connection cross section AWG, max.	AWG 8
Type of connection	Screw connection	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	6 mm ²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section, finely stranded, max.	10 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm ²	Wire connection cross section, solid core, min. rated connection	0.5 mm ²
Wire connection cross section, solid core max. rated connection	10 mm ²	Wire connection cross section, stranded, rated connection, min.	1.5 mm ²
Wire connection cross section, stranded, rated connection, max.	10 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	6 mm ²		

Dimensions

TS 35 offset	32 mm
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Rating data

Rated cross-section	6 mm ²	Rated voltage	800 V
Rated current	41 A	Current at maximum wires	57 A
Standards	IEC 60947-7-1	Volume resistance according to IEC 60947-7-x	0.78 mΩ
Rated impulse withstand voltage	8 kV	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	8 AWG
Conductor size Factory wiring min. (UR)	22 AWG	Conductor size Field wiring max. (UR)	8 AWG
Conductor size Field wiring min. (UR)	22 AWG	Current size C (UR)	50 A
Voltage size C (UR)	600 V		

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Technical data**Classifications**

ETIM 3.0	EC000897	ETIM 4.0	EC000897
ETIM 5.0	EC000897	ETIM 6.0	EC000897
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-20
eClass 6.2	27-14-11-20	eClass 7.1	27-14-11-20
eClass 8.1	27-14-11-20	eClass 9.0	27-14-11-20
eClass 9.1	27-14-11-20		

Product information

Descriptive text ordering data	1000 VDC rated voltage tested. For colour versions, see section on W-series Accessories - specific functions.
Descriptive text technical data	Note max. current of terminal (57 A) when using WQV! Wire connection H07V-..10 and AWG 8 with tightening torque of 1.4-1.6 Nm.
Descriptive text accessories	Cross-connections, socket and test plug, see section "W series accessories". Only 400 V with the use of shield bus LS 2.8 1056400000.

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	CFAT_WDU 6.pdf IECEXULD14.0005U_e.pdf DE_PT1001_20160414_224_ISSUE01.pdf ACF-ATEX_4786180920
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	NTI_IECEX_WDU-WPE 6.pdf

Safety noteSafety notice [Safety Information](#)

Data sheet

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Drawings



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Accessories

WQV 6



Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WQV 6/2	1052360000	W-Series, Cross-connector, For the terminals, No. of poles: 2	4008190075866	50 pc(s).
WQV 6/3	1054760000	W-Series, Cross-connector, For the terminals, No. of poles: 3	4008190174163	50 pc(s).
WQV 6/4	1054860000	W-Series, Cross-connector, For the terminals, No. of poles: 4	4008190180799	50 pc(s).
WQV 6/10	1052260000	W-Series, Cross-connector, For the terminals, No. of poles: 10	4008190153977	20 pc(s).

End brackets



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WEW 35/2	1061200000	W-Series, End bracket	4008190030230	100 pc(s).

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Accessories

Test adapter



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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WTA 3 WDU4	1632350000	W-Series, Test adapter	4008190209711	25 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

General ordering data

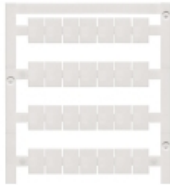
Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/8 MC	1856740000	Dekafix, Terminal marker,	4032248400850	800 pc(s).
NE WS		5 x 8 mm, Pitch in mm (P): 8.00 Weidmueller, White		

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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 laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 12/8	1906000000	WS, Terminal marker, 12 x	4032248528158420	pc(s).
PLUS MC NE		8 mm, Pitch in mm (P): 8.00		
WS		Weidmueller, White		

Partition plates



Klippon® Connect with clamping yoke Technology

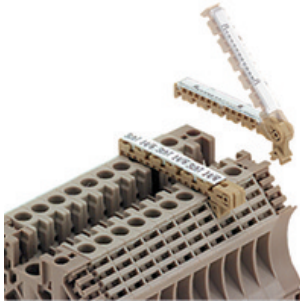
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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WTW EN	1058800000	W-Series, Separation plate	400819014017520	pc(s).

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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.

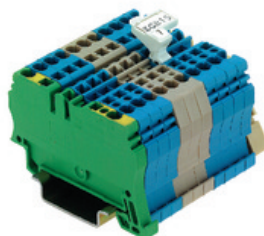
The SchT 7 is a hinged group tag carrier for inlay tags which enables easy access to the clamping screw. The SchT 7 is fitted with ESO 7, STR 7 protective strips or DEK 5.

SchT 9/4 and SchT 14/6 are hinged group tag carriers for single dekafix and WS tags that enable easy access to the clamping screw.

SchT 9/4 and SchT 14/6 are fitted with WS or DEK. Inlay tags and protective strips can be found under "Accessories".

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	
SCHT 7	0517960000	SCHT, Terminal marker, 39.3 x 8 mm, Pitch in mm (P): 7.00 White	400819000174220	20 pc(s).	
This article will no longer be available in the future.	2015-07-31T00:00:00+02:00	SCHT 9/4	1278460000	SCHT, Terminal marker, 32 x 4 mm, Pitch in mm (P): 5.00 Beige	4008190086930 20 pc(s).
This article will no longer be available in the future.	2017-06-30T00:00:00+02:00	SCHT 14/6	1269060000	SCHT, Terminal marker, 44.3 x 6 mm, Pitch in mm (P): 6.00 Beige	4008190051396 20 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	Order No.	Version	GTIN (EAN)	Qty.
ZGB 30	1611930000	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 White	400819000225120	20 pc(s).

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Accessories

ZGB 15 [1636530000](#) Terminal markers, Terminal 4008190297053 20 pc(s).
 marker, 15 x 7 mm, Pitch in
 mm (P): 5.00 White

WGB group tag holder



WGB 5 group tag carriers for single dekafix and WS tags.
 WGB also covers cross-connection channels.

General ordering data

Delivery status Available until	Type	Order No.	Version	GTIN (EAN)	Qty.
This article will no longer be available in the future. 2016-12-31T00:00:00+01:00	WGB 8 ABDG.M.GRUPPENBEZ	1050960000	Terminal markers, 33.5 x 7.7 mm, Pitch in mm (P): 8.00 Beige	4008190076986	50 pc(s).
This article will no longer be available in the future. 2015-12-31T00:00:00+01:00	WGB 5 ABDG.M.GRUPPENBEZ	1050760000	Terminal markers, 33.5 x 5 mm, Pitch in mm (P): 5.00 Beige	4008190072865	50 pc(s).

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 ADVANCED printers.

- High-quality and resistant printing with PrintJet
- WAD marker and cover for the W-series terminals and the WEW 35/2 or ZEW 35/2 end brackets
- Available as blank markers, with custom printing or standard print with lightning symbol
- Quick and easy installation

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WAD 8 MC NE WS	1112940000	Group marker, Cover, 8 mm, Pitch in mm (P): 8.00 White	4032248891825 48	48 pc(s).
WAD 8 MC NE GE	1112950000	Group marker, Cover, 8 mm, Pitch in mm (P): 8.00 Yellow	4032248891696 48	48 pc(s).

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Accessories

Shielding bus



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

End plates



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Type	Order No.	Version	GTIN (EAN)	Qty.
WAP 2.5-10	1050000000	W-Series, End plate	4008190103149	50 pc(s).
WAP 2.5-10	1050080000	W-Series, End plate	4008190136611	50 pc(s).
BL				
WAP 16+35	1050100000	W-Series, End plate,	4008190079901	20 pc(s).
WTW 2.5-10		Seperation plate		
WAP 16+35	1050180000	W-Series, End plate,	4008190013899	20 pc(s).
WTW 2.5-10		Seperation plate		
BL				