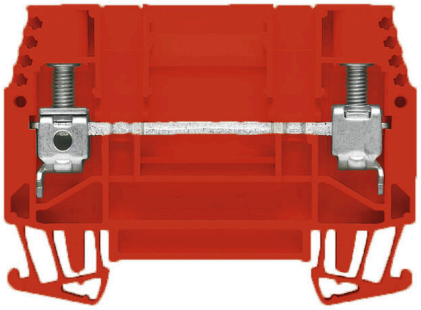
Data sheet

WTD 6/1 RT

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

www.weidmueller.com

Product image



Current and voltage transformer wiring
Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

Version	Test-disconnect terminal, Screw connection, red, 6 mm², 41 A, 630 V, Number of connections: 2, Number of levels: 1
Order No.	1631750000
Type	WTD 6/1 RT
GTIN (EAN)	4008190875626
Qty.	50 items
Delivery status	Discontinued
Available until	2023-12-30T00:00:00+01:00
Alternative product	WTD 6/1

WTD 6/1 RT

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

www.weidmueller.com

Technical data

Approvals

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

Dimensions and weights

Depth	47.5 mm	Depth (inches)	1.8701 inch
Height	65 mm	Height (inches)	2.5591 inch
Width	7.9 mm	Width (inches)	0.311 inch
Net weight	17.42 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	No SVHC above 0.1 wt%

Material data

Basic material	Wemid	Colour	red
UL 94 flammability rating	V-0		

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	No
PE function	No	PEN function	No

Additional technical data

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

CSA rating data

Wire cross section max. (CSA)	8 AWG	Voltage size C (CSA)	300 V
Current size C (CSA)	50 A	Certificate No. (CSA)	200039-1057876
Wire cross section min. (CSA)	20 AWG		

WTD 6/1 RT

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

www.weidmueller.com

Technical data

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A5	Wire connection cross section AWG, max.	AWG 8
Connection direction	on side	Tightening torque, max.	1.6 Nm
Tightening torque, min.	1 Nm	Stripping length	12 mm
Type of connection	Screw connection	Number of connections	2
Clamping range, max.	10 mm²	Clamping range, min.	0.5 mm²
Clamping screw	M 3.5	Blade size	0.8 x 4.0 mm
Wire connection cross section AWG, min.	AWG 20	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	6 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	6 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.5 mm²	Wire connection cross section, finely stranded, max.	10 mm²
Wire connection cross section, finely stranded, min.	0.5 mm²	Connection cross-section, stranded, max.	10 mm²
Connection cross-section, stranded, min.	1.5 mm²	Torque level with DMS electric screwdriver	3
Wire connection cross-section, solid core, max.	10 mm²	Wire connection cross-section, solid core, min.	0.5 mm²

General

Wire connection cross section AWG, max.	AWG 8	Wire connection cross section AWG, min.	AWG 20
Mounting rail	TS 35		

Rating data

Rated cross-section	6 mm²	Rated voltage	630 V
Rated DC voltage	630 V	Nominal current	41 A
Current at maximum wires	57 A	Volume resistance according to IEC 60947-7-x	0.78 mΩ
Rated impulse withstand voltage	6 kV	Power loss in accordance with IEC 60947-7-x	1.31 W
Pollution severity	3		

UL rating data

Conductor size Factory wiring max. (UR)	8 AWG	Current size C (UR)	45 A
Voltage size C (UR)	300 V	Conductor size Factory wiring min. (UR)	20 AWG
Certificate No. (UR)	E60693	Conductor size Field wiring min. (UR)	20 AWG
Conductor size Field wiring max. (UR)	8 AWG		

Classifications

ETIM 8.0	EC000902	ETIM 9.0	EC000902
ETIM 10.0	EC000902	ECLASS 14.0	27-25-01-09
ECLASS 15.0	27-25-01-09		

WTD 6/1 RT

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

www.weidmueller.com

Drawings



Weidmüller

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

www.weidmueller.com

Accessories

Accessorie



Current and voltage transformer wiring
Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

Type	WAP WTL6/1	Version
Order No.	1068300000	End plate for terminals, dark beige, Height: 65 mm, Width: 1.5 mm,
GTIN (EAN)	4008190088330	V-0, Wemid, Snap-on: No
Qty.	20 ST	
Type	WTW WTL6/1 DB	Version
Order No.	1068400000	Partition plate (terminal), dark beige, Height: 65 mm, Width: 1.5 mm,
GTIN (EAN)	4008190091996	V-0, Wemid
Qty.	20 ST	

Disconnect plugs



In contrast to the terminal blocks with integrated disconnect lever, our disconnect plugs can be completely detached or removed from the terminal block and the respective application and offer a flexible alternative solution to our standard disconnectors.

General ordering data

Type	QL 2 SAK6N	Version
Order No.	0194300000	Cross-connector (terminal), when screwed in, grey, 41 A, Number of
GTIN (EAN)	4008190182854	poles: 2, Pitch in mm (P): 7.90, Insulated: No, Width: 13.9 mm
Qty.	50 ST	

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.

Weidmüller

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

www.weidmueller.com

Accessories

General ordering data

Type	QL 3 SAK6N	Version
Order No.	0194400000	Cross-connector (terminal), when screwed in, grey, 41 A, Number of
GTIN (EAN)	4008190063351	poles: 3, Pitch in mm (P): 7.90, Insulated: No, Width: 21.8 mm
Qty.	50 ST	
Type	QL 4 SAK6N	Version
Order No.	0194500000	Cross-connector (terminal), when screwed in, grey, 57 A, Number of
GTIN (EAN)	4008190025601	poles: 4, Pitch in mm (P): 7.90, Insulated: No, Width: 29.7 mm
Qty.	50 ST	
Type	QL 10 SAK6N	Version
Order No.	0338300000	Cross-connector (terminal), when screwed in, grey, 41 A, Number of
GTIN (EAN)	4008190176679	poles: 10, Pitch in mm (P): 7.90, Insulated: No, Width: 77.1 mm
Qty.	20 ST	
Type	VH 12/4.9/3.3	Version
Order No.	0249000000	Connecting sleeve (terminal), when screwed in, Width: 4.9 mm,
GTIN (EAN)	4008190129507	Height: 4.9 mm, Depth: 12 mm, Number of poles: 1, Copper
Qty.	100 ST	

Mounting support



We offer a broad portfolio of mounting support for easy handling and supplementation of our products. From various tools to insulating sleeves and various screws, our components are matched to each other down to the last detail and thus facilitate assembly in compliance with the respective standards and protective regulations.

General ordering data

Type	KISC M3X20 SAK10 CU5	Version
Order No.	0377100000	SAK Series, Mounting screw, Copper
GTIN (EAN)	4008190060350	
Qty.	100 ST	

Accessorie



Current and voltage transformer wiring
Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

Type	QVS 2 SAKT1+2	Version
Order No.	0307300000	Cross-connector (terminal), when screwed in, beige, 41 A, Number of
GTIN (EAN)	4008190036140	poles: 2, Pitch in mm (P): 12.00, Insulated: Yes, Width: 15.4 mm
Qty.	20 ST	

Weidmüller

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

www.weidmueller.com

Accessories

Type	QVS 3 SAKT1+2	Version
Order No.	0329300000	Cross-connector (terminal), when screwed in, beige, 41 A, Number of
GTIN (EAN)	4008190084714	poles: 3, Pitch in mm (P): 12.00, Insulated: Yes, Width: 22 mm
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 35 IH/BL	Version
Order No.	0388700000	Socket (terminal), Plug-in depth: 8 mm, Depth: 37.5 mm
GTIN (EAN)	4008190082383	
Qty.	50 ST	

Type	STB 35 IH/GN	Version
Order No.	0388900000	Socket (terminal), Plug-in depth: 8 mm, Depth: 37.5 mm
GTIN (EAN)	4008190010409	
Qty.	50 ST	

Type	STB 35 IH/GE	Version
Order No.	0389000000	Socket (terminal), Plug-in depth: 8 mm, Depth: 37.5 mm
GTIN (EAN)	4008190396985	
Qty.	50 ST	

Accessorie



Current and voltage transformer wiring
Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

Type	STB 35 IH/VI	Version
Order No.	0389100000	Socket (terminal), Plug-in depth: 8 mm, Depth: 37.5 mm
GTIN (EAN)	4008190137755	
Qty.	50 ST	

Weidmüller

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

www.weidmueller.com

Accessories

Cross-connections

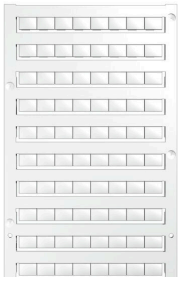


The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

Type	VH 19/6.3/4.3	Version
Order No.	0318000000	Connecting sleeve (terminal), when screwed in, Width: 6 mm, Height:
GTIN (EAN)	4008190059460	6 mm, Depth: 19 mm, Number of poles: 1, Cu Zn
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 5/8 MC NE WS	Version
Order No.	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248400850	Weidmueller, white
Qty.	800 ST	
Type	WS 12/8 PLUS MC NE WS	Version
Order No.	1906000000	WS, Terminal marker, 12 x 8 mm, Pitch in mm (P): 8.00 Weidmueller,
GTIN (EAN)	4032248528158	white
Qty.	420 ST	

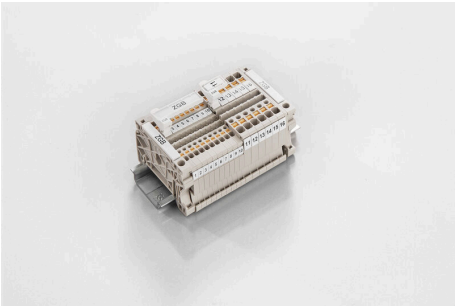
Weidmüller

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

www.weidmueller.com

Accessories

ZGB pivotable group tag holder

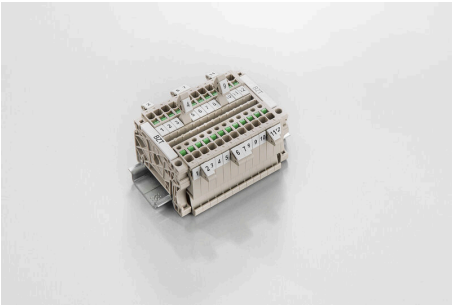


The ZGB 15 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 15.
The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.
Inlay tags and protective strips can be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

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	

Weidmüller

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

www.weidmueller.com

Accessories

DEK 5/8



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	DEK 5/8 MM WS	Version
Order No.	2007130000	Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, white
GTIN (EAN)	4050118392012	
Qty.	500 ST	