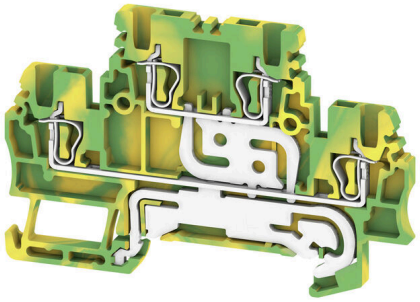
Data sheet

ZDK 1.5PE

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	Double-tier terminal, PE terminal, Tension-clamp connection, 1.5 mm², 180 A (1.5 mm²), Green/yellow
Order No.	1791150000
Type	ZDK 1.5PE
GTIN (EAN)	4032248239092
Qty.	50 items

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Data sheet

ZDK 1.5PE

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Technical data

Approvals

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

Dimensions and weights

Depth	49.5 mm	Depth (inches)	1.9488 inch
Depth including DIN rail	50 mm	Height	75.5 mm
Height (inches)	2.9724 inch	Width	3.5 mm
Width (inches)	0.1378 inch	Net weight	2 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 without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Basic material	Wemid	Colour	Green/yellow
UL 94 flammability rating	V-0		

System specifications

Version	Tension-clamp connection, With PE connection, One end without connector	End cover plate required	Yes
Number of levels	2	Number of clamping points per level	2
Levels cross-connected internally	Yes	PE connection	Yes
Mounting rail	TS 35	PE function	Yes
PEN function	No		

Additional technical data

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

CSA rating data

Wire cross section max. (CSA)	16 AWG	Certificate No. (CSA)	154685-1461041
Wire cross section min. (CSA)	28 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Tension-clamp connection

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Technical data

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	B1		
Wire connection cross section AWG, max.	AWG 16		
Connection direction	top		
Stripping length	10 mm		
Type of connection	Tension-clamp connection		
Number of connections	4		
Clamping range, max.	1.5 mm²		
Clamping range, min.	0.05 mm²		
Blade size	0.4 x 2.0 mm		
Wire connection cross section AWG, min.	AWG 30		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.05 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	1.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.05 mm²		
Wire connection cross section, finely stranded, max.	1.5 mm²		
Wire connection cross section, finely stranded, min.	0.05 mm²		
Connection cross-section, stranded, max.	1.5 mm²		
Connection cross-section, stranded, min.	0.05 mm²		
Twin wire-end ferrules, max.	0.75 mm²		
Twin wire-end ferrules, min.	0.5 mm²		
Wire connection cross-section, solid core, max.	1.5 mm²		
Wire connection cross-section, solid core, min.	0.05 mm²		
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	min.	6 mm
		max.	10 mm
	Cross-section for conductor connection	nominal	0.5 mm²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	0.75 mm²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1 mm²
Tube length for wire-end ferrule without plastic collar DIN 46228/1	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	0.5 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	0.75 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1 mm²
	Tube length	min.	10 mm
		max.	12 mm
	Cross-section for conductor connection	nominal	1.5 mm²

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Technical data

General

Wire connection cross section AWG, max.	AWG 16	Installation advice	Direct mounting
Wire connection cross section AWG, min.	AWG 30	Standards	IEC 60947-7-2
Mounting rail	TS 35		

Rating data

Rated cross-section	1.5 mm²	Rated voltage to adjoining terminal	500 V
Rated DC voltage	500 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	1.83 mΩ	Rated impulse withstand voltage to adjacent terminal	6 kV
Power loss in accordance with IEC 60947-7-x	0.00 W	Pollution severity	3

UL rating data

Conductor size Factory wiring max. (cURus)	16 AWG	Certificate No. (cURus)	E60693
Conductor size Field wiring min. (cURus)	28 AWG	Conductor size Factory wiring min. (cURus)	28 AWG
Conductor size Field wiring max. (cURus)	16 AWG		

Classifications

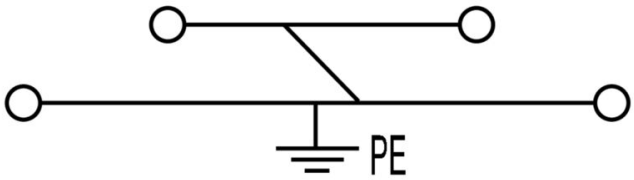
ETIM 8.0	EC000901	ETIM 9.0	EC000901
ETIM 10.0	EC000901	ECLASS 14.0	27-25-01-04
ECLASS 15.0	27-25-01-04		

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Drawings



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ZDK 1.5PE

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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	ZQV 1.5/2	Version
Order No.	1776120000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248200139	
Qty.	60 ST	

Type	ZQV 1.5/3	Version
Order No.	1776130000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248200153	
Qty.	60 ST	

Type	ZQV 1.5/4	Version
Order No.	1776140000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248200160	
Qty.	60 ST	

Type	ZQV 1.5/5	Version
Order No.	1776150000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248236336	
Qty.	20 ST	

Type	ZQV 1.5/10	Version
Order No.	1776200000	Accessories, Cross-connector, 17.5 A
GTIN (EAN)	4032248200177	
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	ZAP/TW ZDK1.5	Version
Order No.	1791160000	Z-series, End plate, Partition plate
GTIN (EAN)	4032248245260	
Qty.	20 ST	

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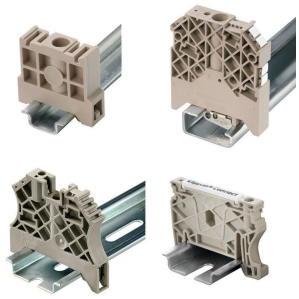
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Accessories

Type	ZAP/TW ZDK1.5 BL	Version
Order No.	1791170000	Z-series, End plate, Partition plate
GTIN (EAN)	4032248245277	
Qty.	20 ST	

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	EW 35	Version
Order No.	0383560000	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C
GTIN (EAN)	4008190181314	
Qty.	50 ST	
Type	EW 35 GR 7032	Version
Order No.	0383530000	End bracket, grey, TS 35, V-0, Wemid, Width: 9 mm, 120 °C
GTIN (EAN)	4008190027322	
Qty.	50 ST	
Type	EW 35/SCHA/M3	Version
Order No.	0258660000	End bracket, beige, TS 35, V-2, Wemid, Width: 16.5 mm, 100 °C
GTIN (EAN)	4008190033477	
Qty.	20 ST	
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	
Type	WEW 35/2	Version
Order No.	1061200000	End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C
GTIN (EAN)	4008190030230	
Qty.	50 ST	
Type	ZEW 35	Version
Order No.	9540000000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C
GTIN (EAN)	4008190956264	
Qty.	20 ST	
Type	ZEW 35/2	Version
Order No.	8630740000	End bracket, dark beige, TS 35, V-2, Wemid, Width: 8 mm, 100 °C
GTIN (EAN)	4032248348916	
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	ZTA 5	Version
Order No.	1776210000	Accessories, Test adapter, 13.5 A
GTIN (EAN)	4032248190676	
Qty.	25 ST	

Type	ZTA 5/ZA	Version
Order No.	1776220000	Accessories, Test adapter, 13.5 A
GTIN (EAN)	4032248190683	
Qty.	25 ST	

Reducing sleeves



The use of reducing sleeves simplifies the connection of conductors with smaller cross-sections. Conductors can be reliably inserted into the clamping point without the strands fraying. The use of a reducing sleeve centres the conductor in the entry point.

General ordering data

Type	ZRH 1.5S/1	Version
Order No.	1781950000	Accessories, Reducing sleeve
GTIN (EAN)	4032248199525	
Qty.	500 ST	

STR transparent strips



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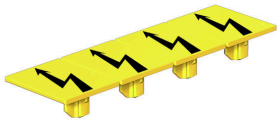
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Accessories

General ordering data

Type	STR 7 F.SCHT 7	Version
Order No.	0515300000	Terminal markers, Protective cap, 27 x 6.3 mm, Transparent
GTIN (EAN)	4008190182175	
Qty.	20 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	ZAD 7/4	Version
Order No.	1781940000	Z-series, Cover
GTIN (EAN)	4032248193431	
Qty.	20 ST	

Custom printing



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 5/3.5 MC SDR	Version
Order No.	1767730000	Dekafix, Terminal marker, 5 x 3.5 mm, Pitch in mm (P): 3.50
GTIN (EAN)	4032248102532	Weidmueller, To customer specification
Qty.	100 ST	

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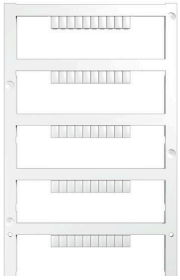
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Accessories

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.

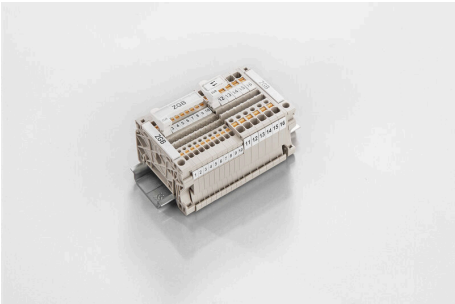
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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 5/3.5 MC NE WS	Version
Order No.	1755270000	Dekafix, Terminal marker, 5 x 3.5 mm, Pitch in mm (P): 3.50
GTIN (EAN)	4032248017348	Weidmueller, white
Qty.	500 ST	
Type	WS 12/3.5 MC NE WS	Version
Order No.	1778270000	WS, Terminal marker, 12 x 3.5 mm, Pitch in mm (P): 3.50
GTIN (EAN)	4032248161041	Weidmueller, Allen-Bradley, white
Qty.	600 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	
Type	ZGB 30/3.5	Version
Order No.	1778290000	Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 3.50
GTIN (EAN)	4032248161065	white
Qty.	20 ST	

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Accessories

DEK 5/3.5



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	DEK 5/3.5 MM WS	Version
Order No.	2007100000	Dekafix, Terminal marker, 5 x 3.5 mm, Weidmueller, white
GTIN (EAN)	4050118391992	
Qty.	1000 ST	

WS 12/3.5



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 12/3.5 MM WS	Version
Order No.	2007180000	WS, Terminal marker, 12 x 3.5 mm, Weidmueller, white
GTIN (EAN)	4050118392203	
Qty.	1000 ST	

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ZDK 1.5PE

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Accessories

Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.4X2.0X60	Version
Order No.	2749260000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade
GTIN (EAN)	4050118895537	thickness (A): 0.4 mm
Qty.	1 ST	

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