AITB 2.5 NDT-L-PE

Building installation wiring

For building installations, we offer a complete system that revolves around the 10×3 copper rail and comprises perfectly coordinated components: from installation terminal blocks, neutral conductor terminal blocks and distribution terminal blocks to comprehensive accessories such as busbars and busbar holders.

General ordering data

Version	Multi level installation terminal block, PUSH IN, dark beige, 2.5 mm², 24 A, 250 V, Number of connections: 5, Number of levels: 3
Order No.	2669030000
Type	AITB 2.5 NDT-L-PE
GTIN (EAN)	4064675030614
Qty.	50 items

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AITB 2.5 NDT-L-PE

Technical data

Approvals

Approvals	C E CSA cURus DNV VDE UKCA
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	50.1 mm	Depth (inches)	1.9724 inch
Height	103 mm	Height (inches)	4.0551 inch
Width	5.1 mm	Width (inches)	0.2008 inch
Net weight	13.32 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%

Material data

Basic material	Wemid	Colour	dark beige
Colour of operational elements	orange	UL 94 flammability rating	V-0

System specifications

End cover plate required	Yes	Number of potentials	3
Number of levels	3	Number of clamping points per level	2
Levels cross-connected internally	No	Mounting rail	TS 35
N-function	No	PE function	Yes
PEN function	No		

Additional technical data

Open sides	right	Snap-on	Yes
Type of mounting	Snap-on		

CSA rating data

Wire cross section max. (CSA)	12 AWG	Voltage size C (CSA)	300 V
Current size C (CSA)	20 A	Certificate No. (CSA)	200039-70089609
Voltage size B (CSA)	300 V	Current size B (CSA)	20 A
Voltage size D (CSA)	300 V	Current size D (CSA)	10 A
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A3

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Technical data

Wire connection cross section AWG, max.	AWG 12		
Connection direction	top		
Stripping length	10 mm		
Type of connection 2	PUSH IN		
Type of connection	PUSH IN		
Number of connections	5		
Clamping range, max.	4 mm²		
Clamping range, min.	0.14 mm²		
Blade size	0.6 x 3.5 mm		
Wire connection cross section AWG, min.	AWG 28		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	4 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.14 mm²		
Wire connection cross section, finely stranded, max.	4 mm²		
Wire connection cross section, finely stranded, min.	0.14 mm²		
Connection cross-section, stranded, max.	4 mm²		
Connection cross-section, stranded, min.	0.14 mm²		
Twin wire-end ferrules, max.	0.75 mm²		
Twin wire-end ferrules, min.	0.5 mm²		
Wire connection cross-section, solid core, max.	4 mm²		
Wire connection cross-section, solid core, min.	0.14 mm²		
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	min.	6 mm
		max.	8 mm
	Cross-section for conductor connection	min.	0.14 mm²
		max.	0.34 mm²
	Tube length	min.	6 mm
		max.	12 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	1 mm²
	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	min.	1.5 mm²
		max.	2.5 mm²
Tube length for twin wire-end ferrule	Tube length	min.	8 mm
		max.	12 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	0.75 mm²
Tube length for wire-end ferrule without plastic collar DIN 46228/1	Tube length	nominal	5 mm
	Cross-section for conductor connection	nominal	0.25 mm²
	Tube length	min.	6 mm
		max.	10 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	1 mm²
	Tube length	min.	7 mm

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Technical data

		max.	12 mm
Cross-section for conductor connection		min.	1.5 mm²
		max.	2.5 mm²

General

Wire connection cross section AWG, max.	AWG 12	Wire connection cross section AWG, min.	AWG 28
Standards	IEC 60947-7-1 (-7-2)	Mounting rail	TS 35

Rating data

|			
Rated cross-section	2.5 mm²	Rated voltage	250 V
Rated DC voltage	250 V	Nominal current	24 A
Current at maximum wires	27 A	Standards	IEC 60947-7-1 (-7-2)
Volume resistance according to IEC 60947-7-x	1.33 mΩ	Rated impulse withstand voltage	4 kV
Power loss in accordance with IEC 60947-7-x	0.77 W	Rated voltage (L / L)	400 V
Rated voltage (L / N)	250 V	Rated voltage (L / PE)	250 V
Surge voltage category	III	Pollution severity	3

UL rating data

Conductor size Factory wiring max. (cURus)	12 AWG	Voltage size B (cURus)	300 V
Voltage size D (cURus)	300 V	Certificate No. (cURus)	E60693
Conductor size Field wiring min. (cURus)	26 AWG	Conductor size Factory wiring min. (cURus)	26 AWG
Current size B (cURus)	20 A	Voltage size C (cURus)	300 V
Current size C (cURus)	20 A	Current size D (cURus)	10 A
Conductor size Field wiring max. (cURus)	12 AWG		

Classifications

ETIM 8.0	EC001329	ETIM 9.0	EC001329
ETIM 10.0	EC001329	ECLASS 14.0	27-25-01-10
ECLASS 15.0	27-25-01-10		
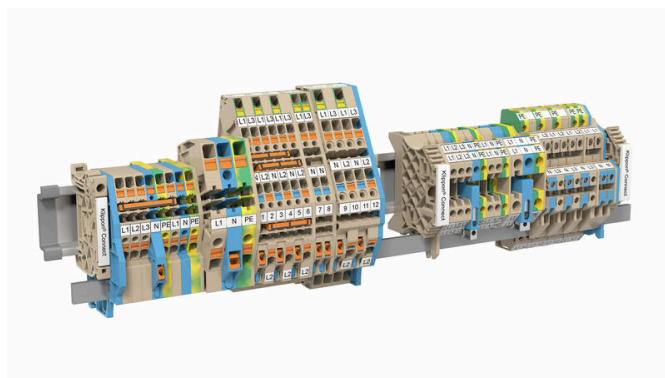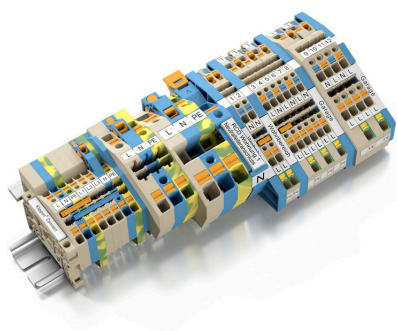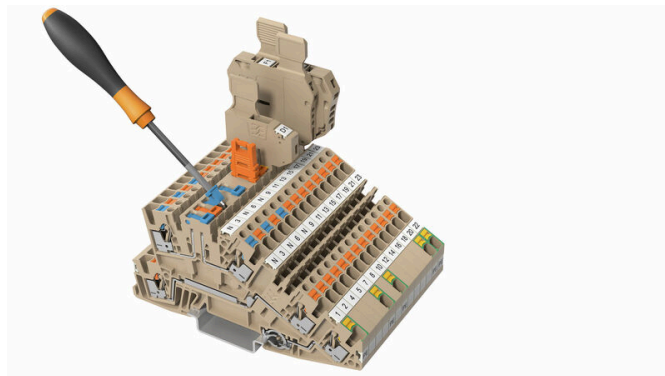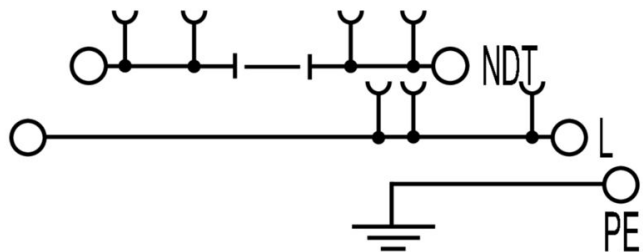
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Drawings

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## Accessories

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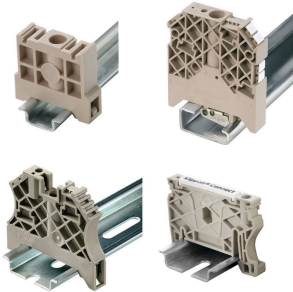
Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

Type	AEB 35 SCL/1 V0	Version
Order No.	2661280000	A-series, End bracket
GTIN (EAN)	4050118702163	
Qty.	20 ST	

Type	AEB 35 SCL/1 V0 BK	Version
Order No.	2661300000	A-series, End bracket
GTIN (EAN)	4050118702187	
Qty.	20 ST	

Type	AEB 35 SCL/1 V0 GY	Version
Order No.	2661290000	A-series, End bracket
GTIN (EAN)	4050118702170	
Qty.	20 ST	

Slotted screwdriver
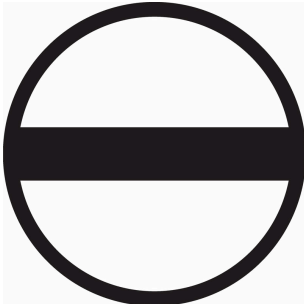
VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

Type	SDIS SLIM 0.6X3.5X100	Version
Order No.	2749610000	Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118896350	thickness (A): 0.6 mm
Qty.	1 ST	

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Accessories

Fuse holder

The fuse holder SIHA quickly turns a disconnect terminal into a fuse terminal: simply remove the disconnect lever and attach the fuse unit.

General ordering data

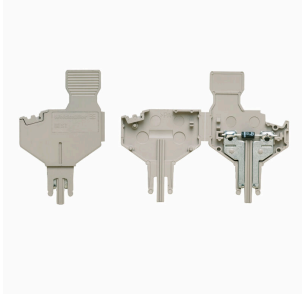| Type	SIHA 3/G20	Version	
Order No.	7921560000	Fuse holder for feed-through modular terminal, black, 6.3 A,	
GTIN (EAN)	4032248264643	pluggable, V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20/LD 10-36V	Version	
Order No.	7921570000	Fuse holder for feed-through modular terminal, black, 2.31 mA,	
GTIN (EAN)	4032248322503	pluggable, V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20/LD 140-250V	Version	
Order No.	7921600000	Fuse holder for feed-through modular terminal, black, 2.31 mA,	
GTIN (EAN)	4032248322633	pluggable, V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20/LD 60-150V	Version	
Order No.	7921590000	Fuse holder for feed-through modular terminal, black, 2.31 mA,	
GTIN (EAN)	4032248322626	pluggable, V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20/LD 35-70V	Version	
Order No.	7921580000	Fuse holder for feed-through modular terminal, black, 2.31 mA,	
GTIN (EAN)	4032248322619	pluggable, V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20/LD 10-36V BL	Version	
Order No.	1005250000	Fuse holder for feed-through modular terminal, blue, 2.31 A,	
GTIN (EAN)	4032248712038	pluggable, V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20 BL	Version	
Order No.	1004260000	Fuse holder for feed-through modular terminal, blue, 6.3 A, pluggable,	
GTIN (EAN)	4032248709717	V-0, Wemid	
Qty.	25 ST		
Type	SIHA 3/G20	Version	
Order No.	7926190000	Fuse holder for feed-through modular terminal, black, 6.3 A,	
GTIN (EAN)	4032248264612	pluggable, V-0, Wemid	
Qty.	1000 ST		

AITB 2.5 NDT-L-PE

Accessories

Component plugs

The component plug is used to integrate an electrical component in a disconnect terminal block. After soldering the electronic component, the plug can be integrated into the disconnection area of our disconnect terminal blocks and thus changes the disconnect terminal block into a modular terminal block with integrated electronic component.

General ordering data

Type	BEST	Version
Order No.	1833100000	Accessories, Component plug
GTIN (EAN)	4032248501014	
Qty.	50 ST	

Type	BEST/DRBR	Version
Order No.	1878570000	Accessories, Component plug, 22 A
GTIN (EAN)	4032248471508	
Qty.	50 ST	

Type	BEST/D	Version
Order No.	1878560000	Accessories, Component plug, 1 A
GTIN (EAN)	4032248471492	
Qty.	50 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	TNST OR	Version
Order No.	2463540000	Disconnect plug (terminal), Wemid, orange
GTIN (EAN)	4050118478211	
Qty.	50 ST	

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Weidmüller

Accessories

DEK 5/5
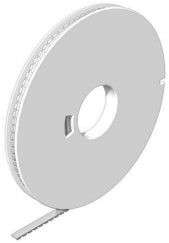
WS/ DEK
MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate 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 5/5 MM WS	Version	
Order No.	2007110000	Dekafix, Terminal marker, 5 x 5 mm, Weidmueller, white	
GTIN (EAN)	4050118391862		
Qty.	800 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.

General ordering data

Type	ZQV 2.5N/10	Version	
Order No.	1527690000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:	
GTIN (EAN)	4050118447989	10, Pitch in mm (P): 5.10, Insulated: Yes, Width: 48.7 mm	
Qty.	20 ST		
Type	ZQV 2.5N/2	Version	
Order No.	1527540000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:	
GTIN (EAN)	4050118448467	2, Pitch in mm (P): 5.10, Insulated: Yes, Width: 7.9 mm	
Qty.	60 ST		
Type	ZQV 2.5N/20	Version	
Order No.	1527720000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:	
GTIN (EAN)	4050118447972	20, Pitch in mm (P): 5.10, Insulated: Yes, Width: 102 mm	
Qty.	20 ST		

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Accessories

Type	ZQV 2.5N/3	Version
Order No.	1527570000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448450	3, Pitch in mm (P): 5.10, Insulated: Yes, Width: 13 mm
Qty.	60 ST	
Type	ZQV 2.5N/4	Version
Order No.	1527590000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448443	4, Pitch in mm (P): 5.10, Insulated: Yes, Width: 18.1 mm
Qty.	60 ST	
Type	ZQV 2.5N/5	Version
Order No.	1527620000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448436	5, Pitch in mm (P): 5.10, Insulated: Yes, Width: 23.2 mm
Qty.	20 ST	
Type	ZQV 2.5N/50	Version
Order No.	1527730000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118411362	50, Pitch in mm (P): 5.10, Insulated: Yes, Width: 255 mm
Qty.	5 ST	
Type	ZQV 2.5N/6	Version
Order No.	1527630000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448429	6, Pitch in mm (P): 5.10, Insulated: Yes, Width: 28.3 mm
Qty.	20 ST	
Type	ZQV 2.5N/7	Version
Order No.	1527640000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448412	7, Pitch in mm (P): 5.10, Insulated: Yes, Width: 33.4 mm
Qty.	20 ST	
Type	ZQV 2.5N/8	Version
Order No.	1527670000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118448405	8, Pitch in mm (P): 5.10, Insulated: Yes, Width: 38.5 mm
Qty.	20 ST	
Type	ZQV 2.5N/9	Version
Order No.	1527680000	Cross-connector (terminal), Plugged, orange, 24 A, Number of poles:
GTIN (EAN)	4050118447996	9, Pitch in mm (P): 5.10, Insulated: Yes, Width: 43.6 mm
Qty.	20 ST	

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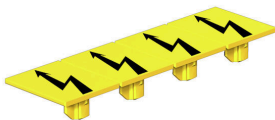
Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

General ordering data

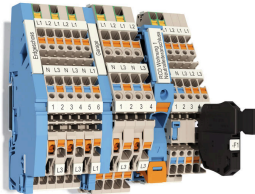| Type	AAM 2.5 YE FLASH	Version
Order No.	2635550000	A-series, Terminal marker, 8 x 5.1 mm, Pitch in mm (P): 5.00 yellow
GTIN (EAN)	4050118674095	
Qty.	40 ST	

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Weidmüller

Accessories

Installation terminal blocks

Building installation wiring
For building installations, we offer a complete system that revolves around the 10×3 copper rail and comprises perfectly coordinated components: from installation terminal blocks, neutral conductor terminal blocks and distribution terminal blocks to comprehensive accessories such as busbars and busbar holders.

General ordering data

Type	AITB 16 BB NLO BL	Version	
Order No.	2669140000	Multi level installation terminal block, PUSH IN, blue, 16 mm², 76 A,	
GTIN (EAN)	4064675266372	1000 V, Number of connections: 2, Number of levels: 1	
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	AEP ITB 2.5	Version	
Order No.	2669060000	A-series, End plate	
GTIN (EAN)	4064675030645		
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	FZS 2/4 RT/80 SAKT4	Version	
Order No.	1276300000	Plug (terminal), Plug-in connection, 2 mm², Number of connections: 2,	
GTIN (EAN)	4008190026080	Number of poles: 1, Width: 9 mm	
Qty.	20 ST		

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