PCB Terminals, PCB Connectors, Through-Panel Terminals

Product Overview

OMNIMATE – Device connectivity

Weidmüller

OMNIMATE – Device connectivity

Are you looking for the perfect solution to your design-in process?

We offer a compelling line of device connectivity products, electronics housings and services that add real value to your devices.

Our wide range of applications-based products includes PCB terminals and connectors, through-panel terminals, and electronics housings for industrial applications with emphases on signal processing and power electronics.

As a pioneering and leading provider of device connectivity and housings, Weidmüller supports the entire design-in process with deep-rooted application expertise and a proven know-how in finding solutions.

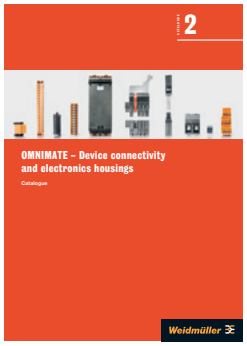
Our global design-in support provides the perfect connection between products and services.

Contents

A quick look at our customised solutions

This brief summary is ideal if you are looking for an overview of our OMNIMATE device connectivity product portfolio.

It includes our most basic components and their key technical specifications. And you'll also discover the many combination options available in our PCB plug-in connector systems.



If you need more information, please check the internet at **www.OMNIMATE.net** or ask us for the Weidmüller OMNIMATE Device Connectivity and Electronics Housing Product Catalogue.

OMNIMATE Signal device connectivity

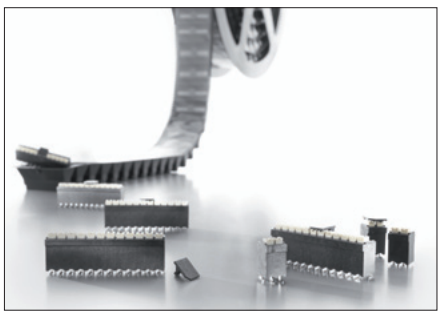
Weidmüller's OMNIMATE Signal includes PCB terminals and PCB plug-in connectors for devices used in automation and control (measurement, control and feedback control systems) – in particular for sensor/actuator interfaces and power supplies.

The main advantages are:

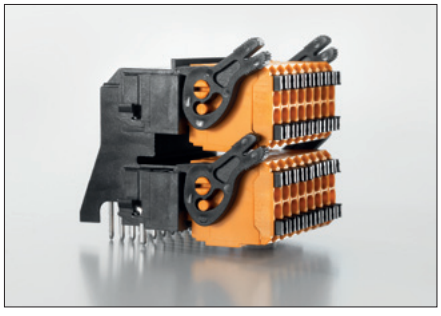
- Application-oriented connection systems ranging from clamping-yoke screw to PUSH IN spring-clamp connections
- All-purpose usage with pitches from 3.50 to 10.16 mm
- Safe for your process; quicker processing possible thanks to SMT assembly and reflow soldering
- Space-saving multi-row and multi-level designs

OMNIMATE Signal connectors

OMNIMATE Signal terminals



OMNIMATE Signal features:
The PUSH IN circuit board terminal for SMD surface mounting – LSF-SMD 3.5/180



High density redefined
More convenience despite the small pitch – the double-row connector in 3.50 mm pitch

The differences between OMNIMATE Signal PCB terminals and PCB connectors:

Pitch and cable entry:
As the pitch of the OMNIMATE connectors increases so does the maximum cable entry (clamping range), which in turn increases the dielectric strength and current carrying capacity (according to IEC and UL).

The connectors consist of headers and plugs:
The headers are processed on the circuit board. There is a field connection available for the male plug. It's your choice whether the finger-safe side is in the field or on the circuit board.

The soldering process for the headers and terminals:
You can choose components for wave or reflow soldering. Optimised packaging and products are also available for either SMT or SMD assembly processes.

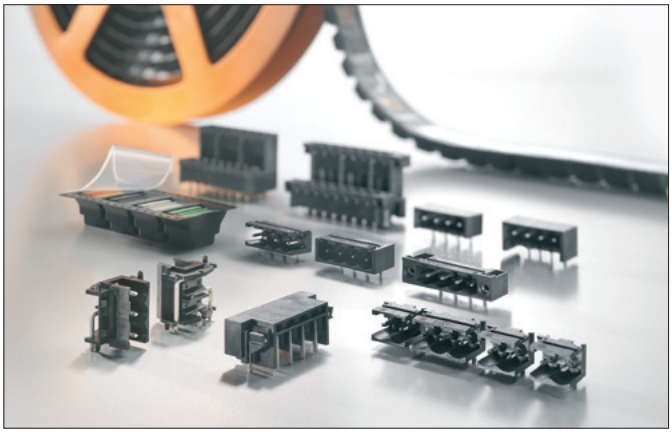
The types of wire connection for plugs and terminals:
The type of connection used is what often makes the difference. All of Weidmüller's connection systems are distinguished by safety, convenience and reliability. You can select from screw, spring or other type of wire connections.

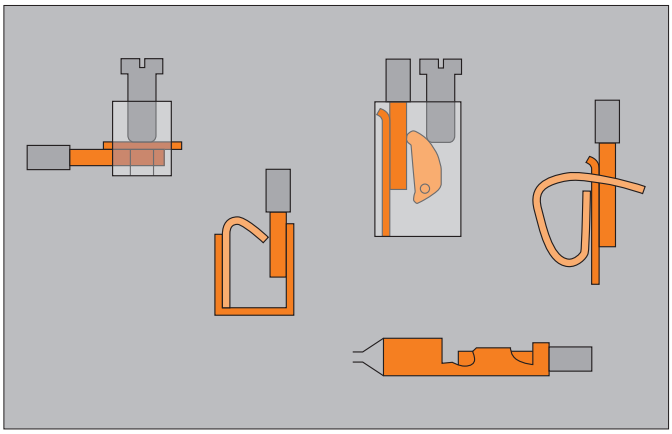
The wire orientation:
The terminals, headers and plugs are all available in several outlet directions (90°, 135°, 180°, etc.) so that they can always meet the application requirements for your device. Each overview page explains the different wire outlet directions (orientation).

The flange options:
Various flange options with different fastening methods are available for the OMNIMATE PCB plug-in connectors. They all help to ensure that the connectors cannot be accidentally disconnected from the circuit board.
More information can be found in the product overview on page 38.

You can contact one of our application specialists, who would be happy to assist you with your design-in process.

www.OMNIMATE.net





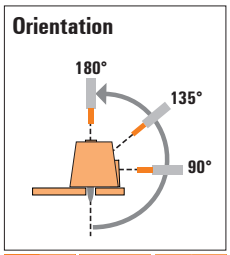
Clamping yoke screw connection
Tried-and-true effectiveness

- The screw connection guarantees a globally accepted, vibration proof and maintenance free connection
- A large conductor clamping area is covered
- The "Wire Ready" technology ensures that the terminal points are fully open at delivery, even after being transported world-wide
- The "Wire Guard" protection mechanism prevents accidental insertion of the wire underneath the clamping area which can be dangerous, it protects against hidden faulty contacts
- The flat clamping yoke also enables the clamping of very small cross-section wires

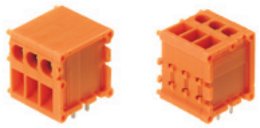
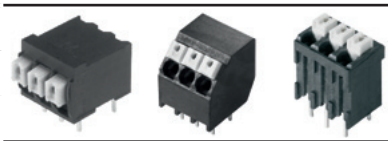
PUSH IN spring connection
The quickest direct plug-in mechanism

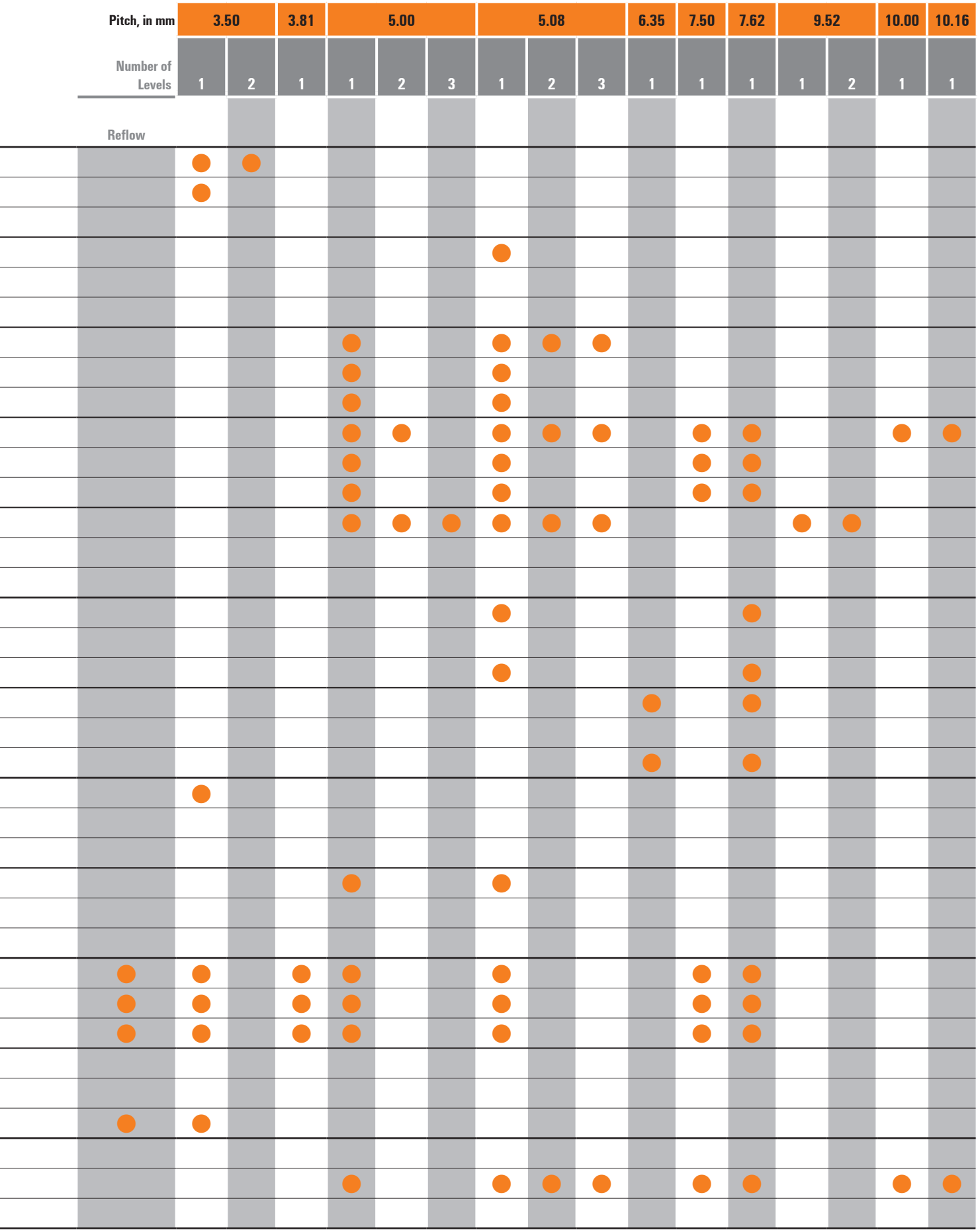
- Fast, tool-less wire connection with direct insertion technology
- The stainless steel spring results in a vibration-resistant connection
- Higher resistance to wire pull-out than in a tension clamp system
- Constant conductor clamping force independent of the operator
- Operator error is reduced using a colour-coded and intuitive actuator
- Wire feed and the operation are aligned in the same direction which permits a compact equipment design

http://www.OMNIMATE.net



PCB Terminals

Type of connection		Clamping range		Type	IEC / UL	90°	135°	180°
Screw	Clamping yoke	≤ 1.5 mm²		LM	IEC: 320 V/16 A/0.5 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 14	●		
							●	
				LS	IEC: 630 V/17.5 A/0.08 - 1.5 mm² UL: 300 V/15 A/AWG 28 - 14	●		
		≤ 2.5 mm²		LM	IEC: 630 V/17.5 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 24 - 14	●		
							●	
								●
		≤ 6.0 mm²		LP	IEC: 500 V/32 A/0.5 - 6 mm² UL: 300 V/20 A/AWG 26 - 12	●		
							●	
								●
				LL	IEC: 500 V/32.5 A/0.5 - 6 mm² UL: 300 V/20 A/AWG 28 - 12	●		
	TOP	≤ 2.5 mm²		TOP1.5GS	IEC: 630 V/24 A/0.5 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 14	●		
								●
		≤ 6.0 mm²		TOP4GS	IEC: 320 V/32 A/0.5 - 6 mm² UL: 300 V/30 A/AWG 26 - 10	●		
								●
	Leaf spring	≤ 1.5 mm²		PS	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 -16	●		
		≤ 2.5 mm²		PM	IEC: 600 V/24 A/0.13 - 2.5 mm² UL: 300 V/15 A/AWG 26 -14	●		
Spring	PUSH IN	≤ 1.5 mm²		LSF-SMT	IEC: 320 V/17.5 A/0.2 -1.5 mm² UL: 300 V/12 A/AWG 24 -16	●		
							●	
								●
				LSF-SMD	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/12 A/AWG 24 -16			
								●
	Tension clamp	≤ 2.5 mm²		LMZF	IEC: 630 V/24 A/0.13 - 2.5 mm² UL: 300 V/15 A/AWG 26 -14			
							●	


Pitch, in mm
3.50
3.81
5.00
5.08
6.35
7.50
7.62
9.52
10.00
10.16
Number of Levels
1
2
1
1
2
3
1
2
3
1
1
1
1
2
1
1
Reflow

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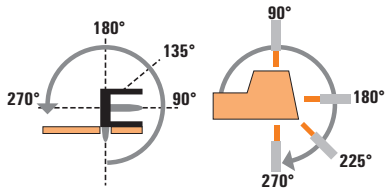
= Wire to board

= Board to board

= Wire to wire

= Board to wire

Orientation



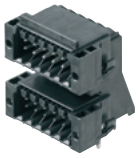
Series B2L/S2L 3.50

			Type	Orientation	Flange options	IEC / UL	Levels
Female header	Spring: PUSH IN		**B2CF**	180°	(G)/F/LR	IEC: 320 V/10.3 A/0.14 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16 **preliminary technical data**	
Female plug	Tension clamp		**B2L**	180°	(G)/F/LH	IEC: 200 V/10.3 A/0.2 - 1 mm² UL: 150 V/10 A/AWG 28 - 16	
	Tension clamp (with internal cross connection)		**B2L QV**	180°	(G)/F/LH	IEC: 200 V/10.6 A/0.2 - 1 mm² UL: 150 V/7 A/AWG 28 - 18	

Female plug:
(G)* = Closed (without flange)
F = Screw flange with screw
LH = Release lever
LR = Lock & Release lever

Male header:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut

* not included in the article description

Male header						
Reflow solder connection					Solder connection	
						
1		1		2	1	
S2C-SMT	**S2C-SMT**	**S2L-SMT**	**S2L-SMT**	**S2LD-THR**	**S2L**	**S2L**
90°	180°	90°	180°	90°	90°	180°
G/LF	G/LF	G/LF	G/LF	G/LF	G/F	G/F
IEC: 200 V/10.3 A UL: 150 V/10 A **preliminary technical data**	IEC: 200 V/10.3 A UL: 150 V/10 A **preliminary technical data**	IEC: 160 V/10 A UL: 150 V/10 A	IEC: 160 V/10 A UL: 150 V/10 A	IEC: 200 V/7.9 A UL: 150 V/7 A	IEC: 250 V/10 A UL: 150 V/10 A	IEC: 250 V/10 A UL: 150 V/10 A
●	●	●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●

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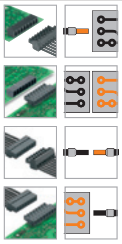
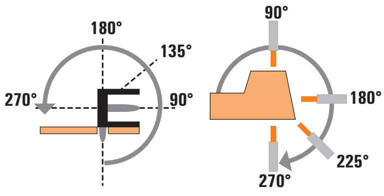
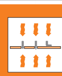
- = Wire to board
- = Board to board
- = Wire to wire
- = Board to wire

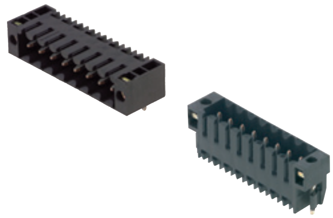


Orientation

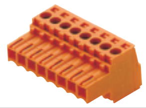
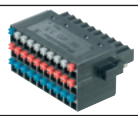




Reflow solder connection



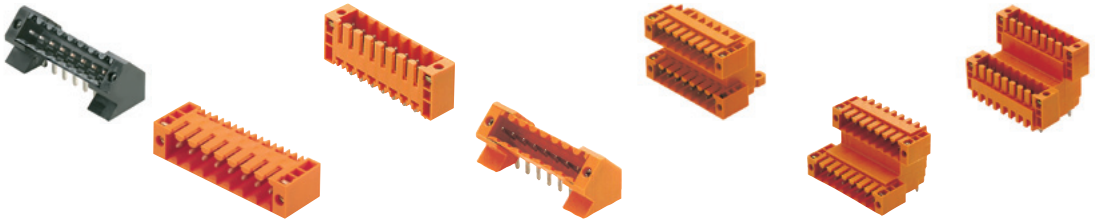
Series BL/SL 3.50

						Levels	1	
		Type					SL-SMT	SL-SMT
			Orientation				90°	180°
				Flange options			G/F/LF/RF	G/F/LF
					IEC / UL		IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A
Female plug	Screw: Clamping yoke		BL	180°	(G)/F/LH/LR	IEC: 320 V/17 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 14	●	●
Female plug	Screw: Clamping yoke		BL	90°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm² UL: 300 V/8 A/AWG 28 - 14	●	●
Female plug	Screw: Clamping yoke		BL	270°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm² UL: 300 V/8 A/AWG 28 - 14	●	●
Female plug	Tension clamp		BLZF	180°	(G)/F/LH/LR	IEC: 320 V/14.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 26 - 14	●	●
Female plug	IDC Bus		BLIDCB	180°	(G)/F	IEC: 250 V/6 A/0.35 - 0.5 mm² UL: 300 V/7 A/AWG 22 - 20	●	●
Female plug	Spring: PUSH IN		BL-I/O 10 Pole	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.5 mm² UL: ≤ 200 V/5 A/AWG 22 - 16	●	●
Female plug	Spring: PUSH IN		BL-I/O 30 Pole	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.5 mm² UL: ≤ 200 V/5 A/AWG 22 - 16	●	●

Female plug:
(G)*= Closed (without flange)
F = Screw flange with screw
LH = Release lever
LR = Lock & Release lever
FP = Offset flange

Male header:
(O)*= Open
G = Closed (without flange)
F = Flange with nut
LF = Solder flange with nut
RF = Locking flange for LR with solder pin

* not included in the article description

Male header						
	Solder connection					
						
1	1			2		
SL-THR	**SL**	**SL**	**SL**	**SLD**	**SLD V**	**SLD V**
135°	90°	180°	135°	90°	90°	180°
F	(0)/G/F	(0)/G/F	F	G/F	G/F	G/F
IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 320 V/15 A UL: 300 V/10 A	IEC: 200 V/10.5 A UL: 300 V/8 A	IEC: 200 V/10.5 A UL: 300 V/8 A	IEC: 200 V/10.5 A UL: 300 V/8 A
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●			

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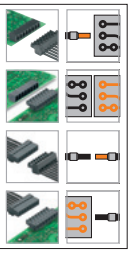
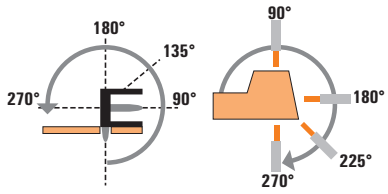
- = Wire to board
- = Board to board
- = Wire to wire
- = Board to wire

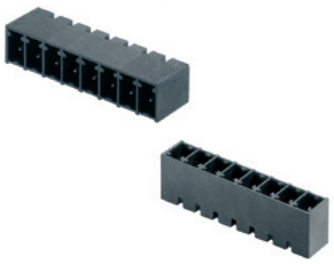


Orientation



Series BC/SC 3.81

Male header



					Levels	1		
				Orientation		90°	180°	
				IEC / UL		IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	
						Solder connection		
			Type			**SC**	**SC**	
				Flange options		G/F	G/F	
						Reflow solder connection		
			Type			**SC-SMT**	**SC-SMT**	
				Flange options		G/LF	G/LF	
Female plug	**Screw**		**BCZ**	180°	(G)/F/LR	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16	●	●
			**BCZ**	90°	(G)/F	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16	●	●
			**BCZ**	270°	(G)/F	IEC: 320 V/17.5 A/0.2 - 1.5 mm² UL: 300 V/10 A/AWG 28 - 16	●	●
	PUSH IN		**BCF**	180°	(G)/F/LR	IEC: 320 V/17.5 A/0.14 - 1.5 mm² UL: 300 V/10 A/AWG 24 - 16	●	●
Female header	**Solder connection**		**BCL SMT**	90°	(G)/F/LFI	IEC: 320 V/17.5 A UL: 300 V/10 A	●	●
			**BCL SMT**	180°	(G)/LFI	IEC: 320 V/17.5 A UL: 300 V/10 A	●	●

Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LFI = Inverted solder flange with nut
LR = Lock & Release lever

Male header and plug:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever
FI = Inverted flange with screw

* not included in the article description

Male header							Male plug
							
1		2					1
135°	270°	90°	180°	90°	90°	180°	180°
IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A UL: 300 V/10 A	IEC: 320 V/17.5 A/ 0.2 - 1.5 mm² UL: 300 V/10 A/ AWG 28 - 16
Solder connection							**Screw**
SC	**SC**	**SCD**	**SCD**	**SCDN**	**SCDV**	**SCDV**	**SCZ**
G/F	G/F	G/F	G/F	G/F	G/F	G/F	G/F/FI/LR
Reflow solder connection							
SC-SMT	**SC-SMT**	**SCD-THR**	**SCD-THR**	**SCDN-THR**	**SCDV-THR**	**SCDV-THR**	
G/LF	G/F	G/F	G/F	G/F	G/F	G/F	
●	●	●	●		●	●	●
●	●	●	●		●	●	●
●	●	●	●		●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●

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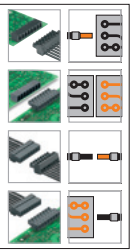
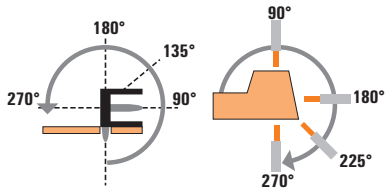
- = Board to wire

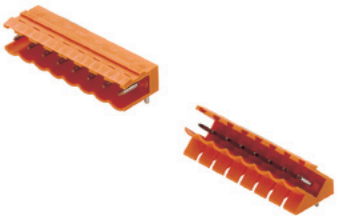


Orientation



Male header

Solder connection



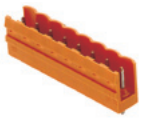
Series BL/SL 5.00

					Levels	1	
			Type			SL	SL
			Orientation			90°	135°
			Flange options			(0)/B	(0)/B
					IEC / UL	IEC: 400 V/18 A UL: 300 V/15 A	IEC: 400 V/17 A UL: 300 V/15 A
Female plug	Screw: Clamping yoke		**BLZP**	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			**BLZP**	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			**BLZP**	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
	Spring: PUSH IN		**BLF**	180°	(G)/F/LR	IEC:: 400 V/20.5 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			**BLF**	90°	(G)/F/LR	IEC:: 400 V/20 A/ 0.2 - 2.5 mm² UL: 300 V/10 A/ AWG 26 - 12	●	●

Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LR = Lock & Release lever

* not included in the article description

Male header and plug:
(O)* = Open
B = Dovetail for fixing blocks with a nut
G = Closed
F = Screw flange with nut
LF = Solder flange with nut
GLF = Closed with additional solder flange
FLF = Flange with nut and additional solder flange

Male header							
Solder connection			Reflow solder connection				
							
1	2		1		1		2
SL	**SLD**	**SLD**	**SL-SMT**	**SL-SMT**	**SL-SMarT**	**SL-SMarT**	**SLDV-THR**
180°	90°	180°	90°	180°	90°	180°	180°
(0)/B	G	G	(0)/G/LF	(0)/G/LF	(0)	(0)	G/GLF/F/FLF
IEC: 400 V/18 A UL: 300 V/15 A	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/15 A UL: 300 V/10 A
●	●	●	●	●	●	●	●
●			●	●	●	●	●
●			●	●	●	●	
●	●	●	●	●	●	●	●
●			●	●	●	●	●

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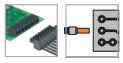
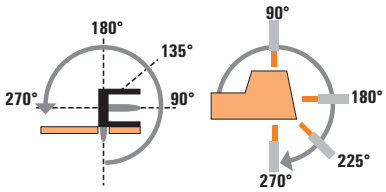
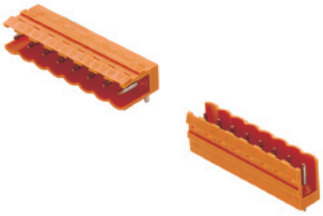
= Wire to board
= Board to board
= Wire to wire
= Board to wire



Orientation



Solder connection



Series BL/SL 5.08 Part 1 of 3

					Levels	1	
				Type		SL HC	SL HC
				Orientation		90°	180°
				Flange options male headers		(0)/G/B/F/LF	(0)/G/B/F/LF
					IEC / UL	IEC: 400 V/24 A UL: 300 V/15 A	IEC: 400 V/24 A UL: 300 V/16 A
Female plug	Clamping yoke		BLZP	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			BLZP	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			BLZP	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			BLZP	225°	(G)/F/LR	IEC: 400 V/17.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
	TOP		BLT	180°	(G)/F/LR	IEC: 400 V/17 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 14	●	●
	Clamping yoke (twin connector)		BLZ QV	180°	(G)	IEC: 400 V/17.5 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 26 - 14	●	●
			BLDZ DN Devicenet	180°	(G)/F	IEC: 400 V/16 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 22 - 12	●	●
			BLDT	180°	(G)	IEC: 400 V/14 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
Female header	Solder connection		BLL	90°	(G)/FI	IEC: 400 V/23 A UL: 300 V/15 A	●	●
			BLL	180°	(G)/B	IEC: 400 V/23 A UL: 300 V/15 A	●	●

Female plug and header:
(G)* = Closed (without flange)
F = Flange with screw
LR = Lock & Release lever
B = Dovetail for fixing blocks with a nut
FI = Inverted flange with nut
* not included in the article description

Male header

Solder connection




Reflow solder connection



	2				1		
	SLD	**SLD**	**SLDV**	**SLDV**	**SL-SMT**	**SL-SMT**	**SL-SMT**
	90°	180°	90°	180°	90°	180°	270°
	G	G	(O)/B	(O)/B	(O)/G/F/LF	(O)/G/F/LF	G/LF
	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/14 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A
	●	●	●	●	●	●	●
			●	●	●	●	●
					●	●	●
	●	●			●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
					●	●	●
					●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●

Male header and plug:

(O)* = Open
B = Dovetail for fixing blocks with a nut
G = Closed
F = Screw flange with nut
LF = Solder flange with nut
* not included in the article description

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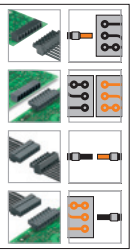
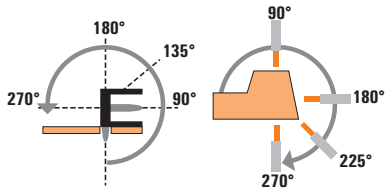
- = Wire to board
- = Board to board
- = Wire to wire
- = Board to wire



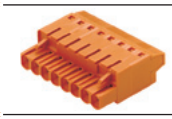
Orientation



Male header

Reflow solder connection

Series BL/SL 5.08 Part 2 of 3

						Levels	1	
					Type		**SL-SMarT**	**SL-SMarT**
					Orientation		90°	180°
					Flange options male headers		(0)	(0)
					IEC / UL		IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A
Female plug	Clamping yoke		**BLZP**	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			**BLZP**	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			**BLZP**	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
			**BLZP**	225°	(G)/F/LR	IEC: 400 V/17.5 A/0.2 - 4 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
	TOP		**BLT**	180°	(G)/F/LR	IEC: 400 V/17 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 14	●	●
	Clamping yoke (twin connector)		**BLZ QV**	180°	(G)	IEC: 400 V/17.5 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 26 - 14	●	●
			**BLDZ DN Devicenet**	180°	(G)/F	IEC: 400 V/16 A/0.2 - 2.5 mm² UL: 300 V/15 A/AWG 22 - 12	●	●
			**BLDT**	180°	(G)	IEC: 400 V/14 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26 - 12	●	●
Female header	Solder connection		**BLL**	90°	(G)/FI	IEC: 400 V/23 A UL: 300 V/15 A	●	●
			**BLL**	180°	(G)/B	IEC: 400 V/23 A UL: 300 V/15 A	●	●

Female plug and header:

(G)* = Closed (without flange)
F = Flange with screw
LR = Lock & Release lever
B = Dovetail for fixing blocks with a nut
FI = Inverted flange with nut
* not included in the article description

	Male plug		Pin-wall feed-through
	Clamping yoke	TOP	Flat-blade connection
			
	2	1	1
	SLDV-THR	**SLS**	**SLT**	**SLDF**
	180°	180°	180°	
	G/FLF	B/F/FI	B/F/FI	
	IEC: 400 V/15 A UL: 300 V/10 A	IEC: 400 V/21.5 A/ 0.2 - 2.5 mm² UL: 300 V/15 A/ AWG 26 - 12	IEC: 400 V/16 A/ 0.2 - 2.5 mm² UL: 300 V/10 A/ AWG 26 - 12	IEC: 400 V/15 A UL: 300 V/10 A
	●	●	●	●
	●	●	●	●
		●	●	●
		●	●	●
	●	●	●	●
	●	●	●	●
		●	●	
		●	●	●
	●	●	●	
	●	●	●	

Male header and plug:

(O)* = Open
B = Dovetail for fixing blocks with a nut
G = Closed
F = Screw flange with nut
FLF = Flange with nut and additional solder flange
* not included in the article description

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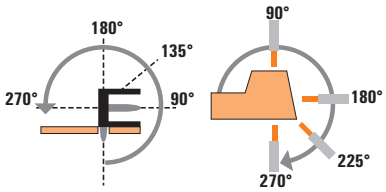
= Wire to board

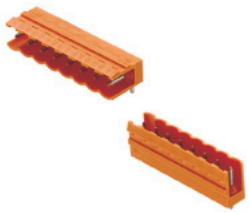
= Board to board

= Wire to wire

= Board to wire

Orientation





Series BL/SL 5.08 Part 3 of 3

			Type	Orientation	Flange options	IEC / UL	Levels 1 SL HC 90° (O)/G/B/F/LF IEC: 400 V/24 A UL: 300 V/15 A	Levels 1 SL HC 180° (O)/G/B/F/LF IEC: 400 V/24 A UL: 300 V/16 A
Female plug	PUSH IN		BLF	180°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm² UL: 300 V/16 A/AWG 12 - AWG 26	●	●
			BLF	90°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm² UL: 300 V/16 A/AWG 12 - AWG 26	●	●
			BLF	270°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm² UL: 300 V/16 A/AWG 12 - AWG 26	●	●
	PUSH IN (twin connector)		BLDF	180°	(G)/F/LR	IEC: 400 V/26.1 A/0.2 - 2.5 mm² UL: 300 V/10 A/AWG 26-12	●	●
	Crimp		BLC	180°	(G)/B	IEC: 400 V/21 A UL: 300 V/10 A	●	●

Female plug and header:

(G)*= Closed (without flange)

F = Flange with screw

LR = Lock & Release lever

B = Dovetail for fixing blocks with a nut

* not included in the article description

Male header										Pin-wall feed-through
Solder connection				Reflow solder connection						Flat-blade connection
										
										
	2				1			1		2	1
	SLD	**SLD**	**SLDV**	**SLDV**	**SL-SMT**	**SL-SMT**	**SL-SMT**	**SL-SMarT**	**SL-SMarT**	**SLDV-THR**	**SLDF**
	90°	180°	90°	180°	90°	180°	270°	90°	180°	180°	
	G	G	(O)/B	(O)/B	(O)/G/F/LF	(O)/G/F/LF	G/LF	(O)	(O)	G/FLF	
	IEC: 400 V/11 A UL: 300 V/10 A	IEC: 400 V/14 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/17 A UL: 300 V/10 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/19 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/16.5 A UL: 300 V/15 A	IEC: 400 V/15 A UL: 300 V/10 A	IEC: 400 V/15 A UL: 300 V/10 A
	●	●	●	●	●	●	●	●	●	●	●
			●	●	●	●	●	●	●	●	●
					●	●	●	●	●		●
	●	●	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●	●

Male header and plug:

(O)* = Open
B = Dovetail for fixing blocks with a nut
G = Closed

F = Screw flange with nut
LF = Solder flange with nut
FLF = Flange with nut and additional solder flange

* not included in the article description

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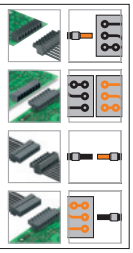
- = Wire to board
- = Board to board
- = Wire to wire
- = Board to wire

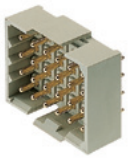
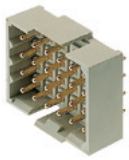


Series RSV

			Type	Contact surface	Flange options	Levels IEC / UL
Female plug	Crimp		**RSV1.6 CB..**	Tin / Gold	(G)	IEC: 630 V/17 A UL: 600 V/10 A/AWG 26 - 12
Female header	Solder connection		**RSV1.6 LB.. SN**	Tin	(G)/F	IEC: 500 V/14 A UL: 300 V/10 A
			**RSV1.6 LB.. AU**	Gold	(G)/F	IEC: 500 V/14 A UL: 300 V/10 A

(G)* = Closed (without flange)
F = Flange

* = not included in the article description

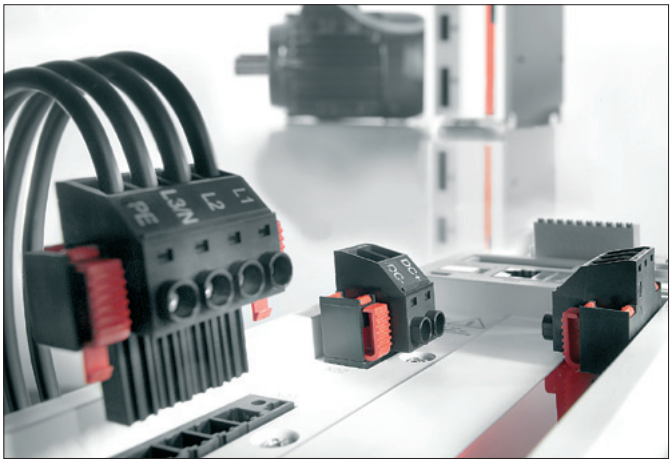
Male header		Male plug
Solder connection		Crimp
		
1		1
RSV1.6 LS.. SN	RSV1.6 LS.. AU	RSV1.6 CS..
Tin	Gold	Tin / Gold
(G)/F	(G)/F	(G)
IEC: 500 V/14 A UL: 300 V/10 A	IEC: 500 V/14 A UL: 300 V/10 A	IEC: 630 V/17 A UL: 600 V/10 A/AWG 26 - 12
●	●	●
●		●
	●	●

OMNIMATE Power device connectivity

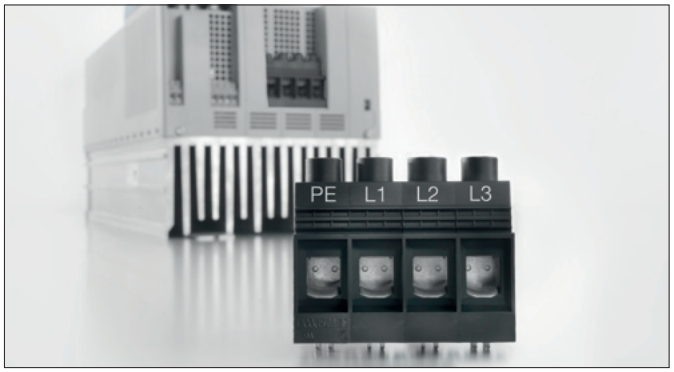
Weidmüller´s OMNIMATE Power products include PCB terminals, PCB plug-in connectors and through-panel terminals for use in power electronics, particularly in inverters, frequency converters, servo drives, heavy-duty power supplies and motor starters.

The main advantages are:

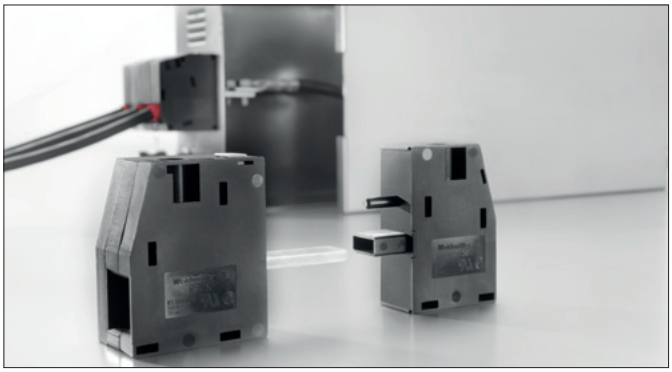
- Simple device approval in accordance with UL 600 V
- Seamless scalability from compact PCB plug-in connectors with 2.5 mm² PUSH IN spring clamp connectors through to sturdy PCB terminals with screw connections for 50 mm²
- Application oriented solutions for motor connections, with pluggable shield connection and higher safety requirements



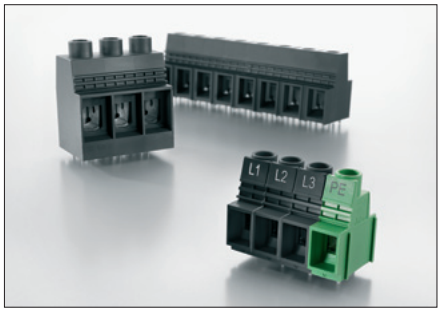
OMNIMATE Power connectors



OMNIMATE Power terminals



OMNIMATE Power through-panel terminals



OMNIMATE Power features:
High-performance connections up to 150 A / 1,000 V – OMNIMATE Power PCB terminals

Power for IT systems
Scalable up to 50 kVA – OMNIMATE Power IT connectors

The differences between OMNIMATE Power PCB terminals and PCB connectors:

Pitch and cable entry:
As the pitch of the OMNIMATE connectors increases so does the maximum cable entry (clamping range), which in turn increases the dielectric strength and current carrying capacity (according to IEC and UL).

The connectors consist of headers and plugs:
The headers are processed on the circuit board. There is a field connection available for the male plug. It's your choice whether the finger-safe side is in the field or on the circuit board.

The soldering process for the headers and terminals:
Due to their size, OMNIMATE Power plug-in connectors and terminals are more suited for wave soldering.

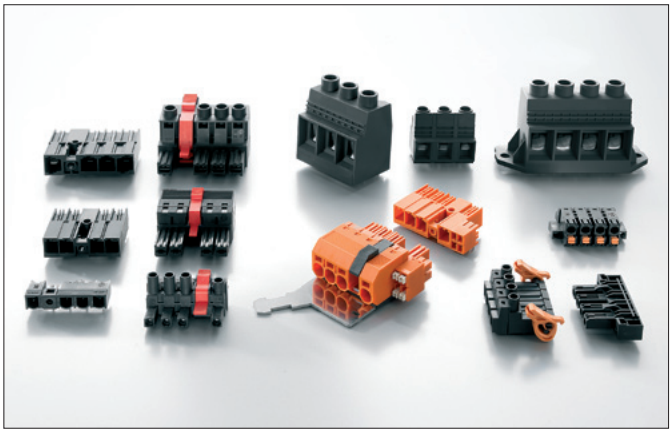
The types of wire connection for plugs and terminals:
The type of connection used is what often makes the difference. All of Weidmüller's connection systems are distinguished by safety, convenience and reliability. You can select from screw, spring or other type of wire connections.

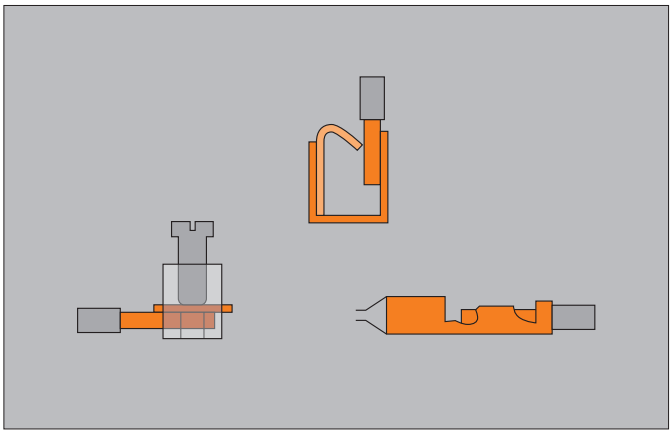
The wire orientation:
The terminals, headers and plugs are all available in several outlet directions (90°, 180°, 270°, etc.) so that they can always meet the application requirements for your device. Each overview page explains the different wire outlet directions (orientation).

The flange options:
Various flange options with different fastening methods are available for the OMNIMATE PCB plug-in connectors. They all help to ensure that the connectors cannot be accidentally disconnected from the circuit board.
More information can be found in the product overview on page 38.

You can contact one of our application specialists, who would be happy to assist you with your design-in process.

www.OMNIMATE.net





Clamping yoke screw connection
Tried-and-true effectiveness

- The screw connection guarantees a globally accepted, vibration proof and maintenance free connection
- A large conductor clamping area is covered
- The "Wire Ready" technology ensures that the terminal points are fully open at delivery, even after being transported world-wide
- The "Wire Guard" protection mechanism prevents accidental insertion of the wire underneath the clamping area which can be dangerous, it protects against hidden faulty contacts
- The flat clamping yoke also enables the clamping of very small cross-section wires

PUSH IN spring connection
The quickest direct plug-in mechanism

- Fast, tool-less wire connection with direct insertion technology
- The stainless steel spring results in a vibration-resistant connection
- Higher resistance to wire pull-out than in a tension clamp system
- Constant conductor clamping force independent of the operator
- Operator error is reduced using a colour-coded and intuitive actuator
- Wire feed and the operation are aligned in the same direction which permits a compact equipment design

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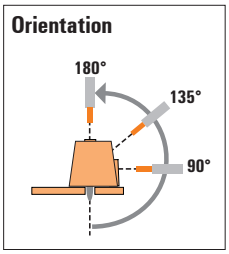
= 300 V (UL) / 1,000 V (IEC)

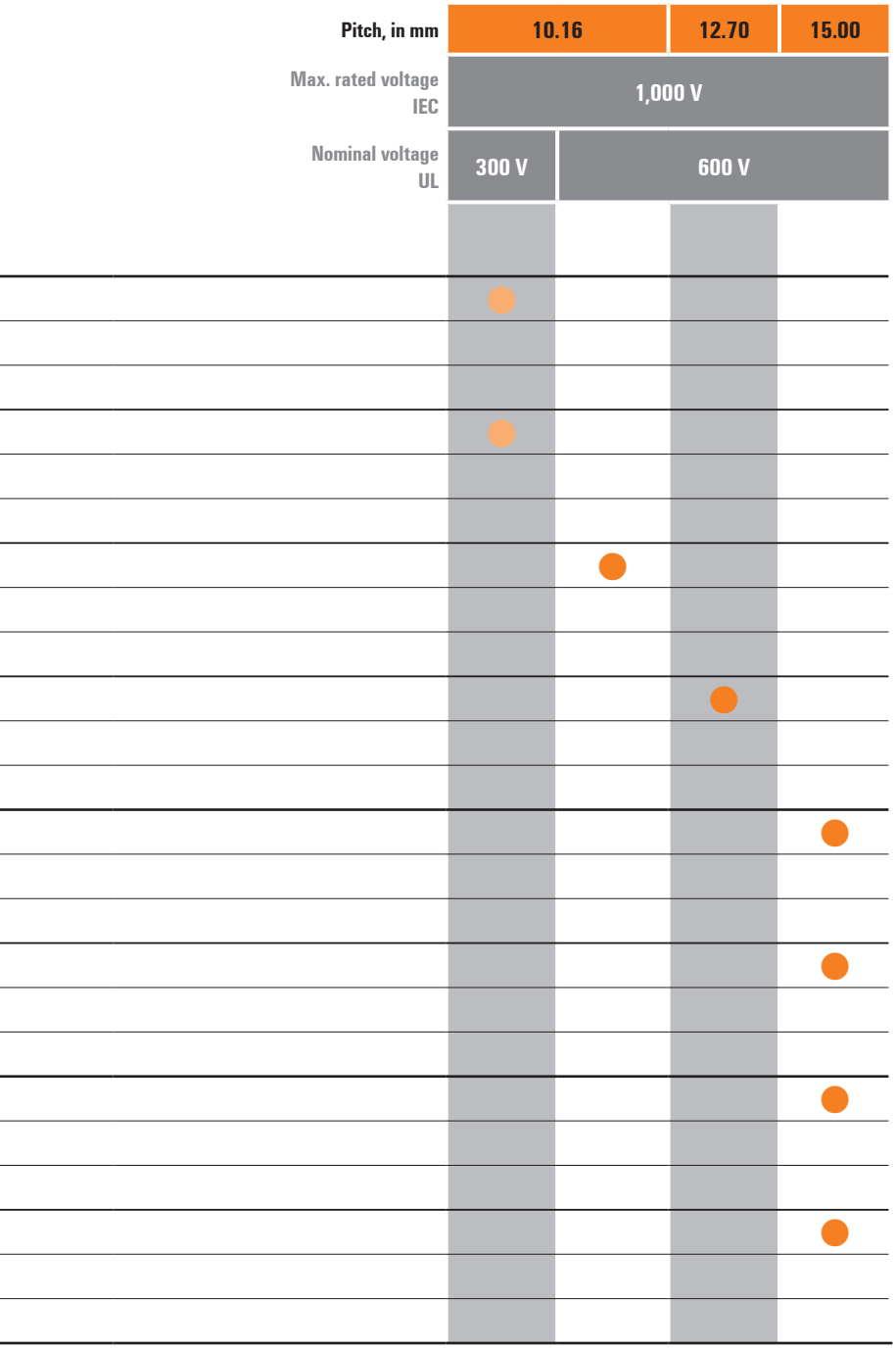
= 600 V (UL) / 1,000 V (IEC)



PCB Terminals

Type of connection		Clamping range		Type	IEC / UL	90°	135°	180°
Screw	Screw: Clamping yoke	≤ 16 mm²		**LU 10.16**	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 300 V/65 A/AWG 26 - 6	●		
				**LUP 10.16**	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 300 V/58 A/AWG 26 - 6	●		
				**LUP 10.16/../90V***	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 600 V/51 A/AWG 22 - 6	●		
				**LUP 12.70**	IEC: 1,000 V/76 A/0.5 - 16 mm² UL: 600 V/58 A/AWG 26 - 6	●		
		≤ 25 mm²		**LX 15.00**	IEC: 1,000 V/101 A/0.5 - 25 mm² UL: 600 V/85 A/AWG 16 - 4	●		
				**LXB 15.00**	IEC: 1,000 V/101 A/1.5 - 25 mm² UL: 600 V/85 A/AWG 16 - 4	●		
		≤ 50 mm²		**LXXX 15.00**	IEC: 1,000 V/150 A/0.5 - 50 mm² UL: 600 V/127 A/AWG 20 - 1	●		
				**LXXX 15.00/../90F**	IEC: 1,000 V/150 A/0.5 - 50 mm² UL: 600 V/127 A/AWG 20 - 1	●		

* With offset solder pins


Pitch, in mm
10.16
12.70
15.00
Max. rated voltage IEC
1,000 V
Nominal voltage UL
300 V
600 V

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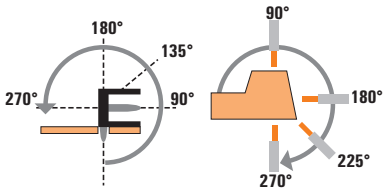
= Wire to board

= Board to board

= Wire to wire

= Board to wire

Orientation



Male header

Solder connection

Series BL/SL 7.62

			Type			SL	SL
			Orientation			90°	180°
			Flange options			G/F/LF	G/F/LF
					Product data	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A
Female plug	**Screw: Clamping yoke**		**BLZ**	180°	(G)/LR	IEC: 630 V/24 A/0.08 - 4 mm² UL: 600 V/20 A/AWG 20 - 12	●	●
Female plug	**Spring: PUSH IN**		**BLF**	180°	(G)/F/LR	IEC: 1,000 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 20	●	●
Female header	**Solder connection**		**BLL**	90°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A		
Female header			**BLL**	180°	(G)/F/LF	IEC: 630 V/24 A UL: 300 V/20 A		

Female plug and header:
(G) = Closed (without flange)
F = Screw flange with screw
LR = Lock & Release lever

Male header and plug:
G = Closed (without flange)
F = Screw flange with nut
LF = Solder flange with nut
LR = Lock & Release lever

	Male plug	
	Screw: Clamping yoke	**Spring: PUSH IN**
		
	SLZ	**SLF**
	180°	180°
	G/F/LR	G/F/LR
	IEC: 1,000 V/24 A/ 0.08 - 2.5 mm² UL: 600 V/17 A/ AWG 20 - 12	IEC: 1,000 V/24 A/ 0.08 - 2.5 mm² UL: 600 V/20 A/ AWG 20 - 12
	●	●
	●	●

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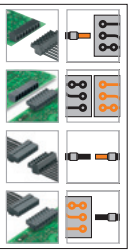
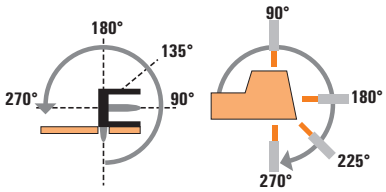
- = Wire to board
- = Board to board
- = Wire to wire
- = Board to wire

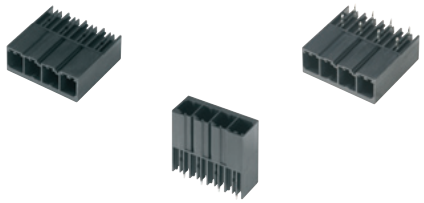


Orientation



Male header

Solder connection



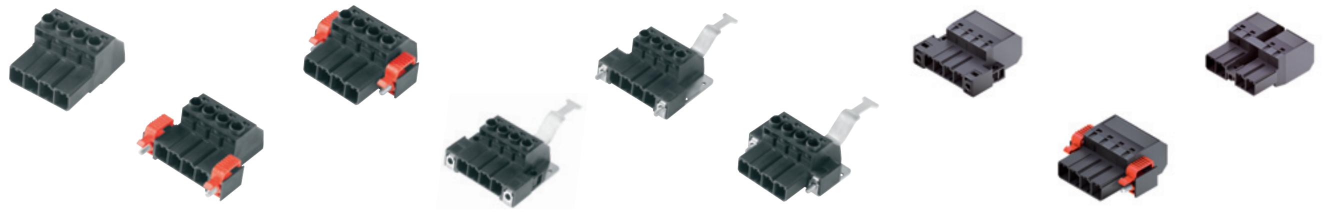
Series BV/SV 7.62

Type					SV	SV	SV
Orientation					90°	180°	270°
Flange options					G/F/SF/MF	G/F/SF/MF	G/F/SF/MF
				Product data	IEC: 1,000 V/41 A UL: 300 V/35 A	IEC: 1,000 V/41 A UL: 300 V/35 A	IEC: 1,000 V/41 A UL: 300 V/35 A
Female plug	Screw: Clamping yoke		**BVZ**	180° (G)/F/SF	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10	●	●	●
			**BVZ**	180° FC/SFC	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10			
			**BVZ**	180° SH...	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10	●	●	●
			**BVZ**	180° SH... C	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 600 V/35 A/AWG 24 - 10			
	Spring: PUSH IN		**BVF**	180° (G)/F/SF/MF/MSF	IEC: 1,000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10	●	●	●
Female header	Solder connection		**BVL**	90° (G)/FI/SFI	IEC: 1,000 V/41 A UL: 300 V/35 A	●	●	●
			**BVL**	180° (G)/FI/SFI	IEC: 1,000 V/41 A UL: 300 V/35 A	●	●	●
			**BVL**	270° (G)/FI/SFI	IEC: 1,000 V/41 A UL: 300 V/35 A	●	●	●

Female plug and header:

- **(G)** = Closed (without flange)
- **F** = Flange with clasp
- **SF** = Flange with clasp and additional screw
- **SFC** = Flange for clasp with additional nut
- **FI** = Inverted flange
- **SFI** = Inverted flange with additional nut
- **FC** = Flange with additional nut
- **SH...** = Shielded flange with additional screw
- **SH... C** = Shielded flange with additional nut
- **MF** = Centre flange with clasp
- **MSF** = Centre flange with clasp and additional screw

	Male plug								
	Screw: Clamping yoke						Spring: PUSH IN		
	SVZ	SVZ	SVZ	SVZ	SVZ	SVZ	SVF	SVF	SVF
	180°	180°	180°	180°	180°	180°	180°	180°	180°
	G/F/SF	G/FC/SFC	G/FI/SFI	SH	SH	SH	G/F/SF	G/FI/SFI	MF/MSF
	IEC: 1,000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.5 - 10 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.5 - 10 mm² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.5 - 10 mm² UL: 600 V/35 A/ AWG 24 - 10
	●			●	●		●		
		●			●				
	●			●			●		
		●							
	●			●	●		●		●
			●			●		●	
			●			●		●	
			●			●		●	



Male header and plug:
- **G** = Closed (without flange)
- **F** = Flange with clasp
- **SF** = Flange with clasp with additional nut
- **FI** = Inverted flange with clasp
- **SFI** = Inverted flange with clasp and additional screw
- **FC** = Flange with clasp
- **SFC** = Flange with clasp and additional screw
- **SH...** = Shielded flange with additional nut
- **MF** = Centre flange for clasp
- **MSF** = Centre flange for clasp with additional nut

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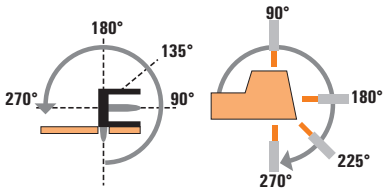
= Wire to board

= Board to board

= Wire to wire

= Board to wire

Orientation



Hybrid male header

Solder connection

Series BV/SV 7.62

Type				SV & SC 3.81
	Orientation			90°/270°
		Flange options		G/MF
			Product data	IEC: 100 V/38 A/0.5 - 10 mm² UL: 600 V/35 A/AWG 24 - 10
Hybrid female plug **Spring: PUSH IN**				
	**BVF & BC 3.81**	180°	(G)/MF	IEC: 1,000 V/41 A/0.2 - 10 mm² UL: 600 V/35 A/AWG 24 - 10

Female plug and header:
(G) = Closed (without flange)
MF = Centre flange with clasp

Male header and plug:
G = Closed (without flange)
MF = Centre flange with clasp

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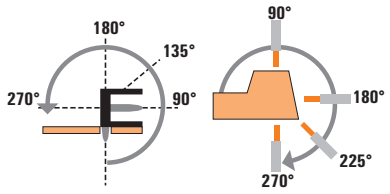
= Wire to board

= Board to board

= Wire to wire

= Board to wire

Orientation



Series BU/SU 10.16

		Type	Orientation	Flange options	Product data
Female plug	Screw: Clamping yoke	**BUZ**	180°	(G)/F/SF	IEC: 1,000 V/78 A/0.2 - 16 mm² UL: 600 V/54 A/AWG 22 - 6
Female header	Solder connection	**BUL**	180°	on request	IEC: 630 V/75 A

Female:
(G) = Without flange
F = Interlock flange
SF = Interlock flange with screw

Pin:
G = Closed (without flange)
F = Interlock flange
SF = Interlock flange with nut

	Male header			Male plug
	Solder connection			Screw: Clamping yoke
				
	SU	**SU**	**SU**	**SUZ**
	90°	180°	270°	180°
	G/F	G/F/SF	G/F/SF	G
	IEC: 1,000 V/76 A/ UL: 300 V/54 A	IEC: 1,000 V/76 A/ UL: 300 V/54 A	IEC: 1,000 V/76 A/ UL: 300 V/54 A	IEC: 1,000 V/78 A/ 0.2 - 16 mm² UL: 600 V/54 A/ AWG 24 - 6
	●	●	●	●
	●	●	●	●

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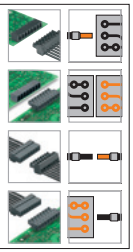
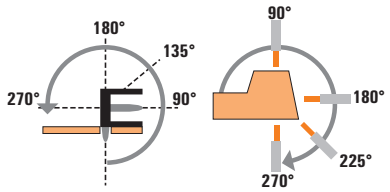
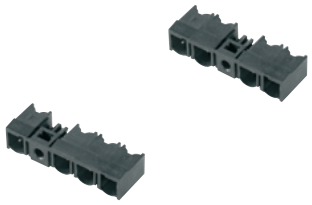
= Wire to board
= Board to board
= Wire to wire
= Board to wire



Orientation



Pitch 7.62 mm



For IT systems

Type				SL	SL
	Orientation			90°	90°
		Flange options		MF2	MF3
			Product data	IEC: 800 V/24 A UL: 300 V/20 A	IEC: 800 V/24 A UL: 300 V/20 A
Female plug	Screw: Clamping yoke				
	**BLZ**	180°	MF2	IEC: 800 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	● ●
	**BLZ**	180°	MF3	IEC: 800 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	● ●
	**BLZ**	180°	MF4	IEC: 800 V/24 A/0.08 - 4 mm² UL: 300 V/20 A/AWG 28 - 12	
	**BVZ**	180°	MF2	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	
	**BVZ**	180°	MF3	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	
	**BVZ**	180°	MF4	IEC: 1,000 V/41 A/0.2 - 6 mm² UL: 300 V/35 A/AWG 24 - 10	
	**BUZ**	180°	MF2	IEC: 1,000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	
	**BUZ**	180°	MF3	IEC: 1,000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	
	**BUZ**	180°	MF4	IEC: 1,000 V/76 A/0.2 - 16 mm² UL: 300 V/54 A/AWG 22 - 6	

MF2 = Centre snap flange at position 2
MF3 = Centre snap flange at position 3
MF4 = Centre snap flange at position 4

Male header						
Solder connection						
Pitch 7.62 mm				Pitch 10.16 mm		
						
SL	**SV**	**SV**	**SV**	**SU**	**SU**	**SU**
90°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°	90° / 270°
MF4	MF2	MF3	MF4	MF2	MF3	MF4
IEC: 800 V/24 A UL: 300 V/20 A	IEC: 1,000 V/41 A UL: 300 V/35 A	IEC: 1,000 V/41 A UL: 300 V/35 A	IEC: 1,000 V/41 A UL: 300 V/35 A	IEC: 1,000 V/76 A UL: 300 V/54 A	IEC: 1,000 V/76 A UL: 300 V/54 A	IEC: 1,000 V/76 A UL: 300 V/54 A
●						
	●					
		●				
			●			
				●		
					●	
						●

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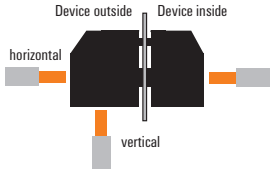
= 300 V (UL) / 250 V (IEC)
= 600 V (UL) / 690 V (IEC)
= 600 V (UL) / 1,000 V (IEC)
* = 600 V acc. to UL 508 / UL 840

Orientation



Through-Panel terminals - WGK

Device Outside Type of connection	Device Inside Type of connection	Clamping range IEC Clamping range UL	Max. rated voltage IEC Nominal current UL		Type	Outlet direction
Screw: Clamping yoke	Solder connection	0.5 - 6 mm² 30 - 10 AWG	32 A 30 A		VWGK 4	horizontal
		0.5 - 10 mm² 22 - 10 AWG	41 A 50 A		VWGK 6	horizontal
	Screw: Clamping yoke	0.5 - 6 mm² 30 - 10 AWG	32 A 30 A		WGK 4 WGKV 4	horizontal vertical
		0.5 - 16 mm² 24 - 6 AWG	57 A 65 A		WGK 10 WGKV 10	horizontal vertical
	Screw: Clamping yoke	0.5 - 25 mm² 20 - 4 AWG	76 A 85 A		WGK 16 WGKV 16	horizontal vertical
	Cable lug				WGK 16 VP	horizontal
	Screw: Clamping yoke	6 - 34 mm² 10 - 3 AWG	101 A 100 A		WGK 25 WGKV 25	horizontal vertical
	Cable lug				WGK 25 VP	horizontal
	Screw: Clamping yoke	16 - 50 mm² 6 - 1/0 AWG	150 A 145 A		WGK 50	horizontal
	Cable lug				WGK 50 VP	horizontal
	Screw: Clamping yoke	35 - 95 mm² 4 - 4/0 AWG	232 A 230 A		WGK 95	horizontal
	Cable lug				WGK 95 F VP	horizontal

Max. rated voltage IEC	400 V	690 V	1,000 V
Nominal voltage UL	300 V	600 V	
	●	*	
	●	*	
	●	*	
	●	*	
		●	
		●	
		●	
		●	
		●	
		●	
			●
			●

Mounting options for OMNIMATE PCB connectors

Connectors flange options

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● = recommended
● = possible to a limited extent

				O	G	B	F / FI	LF/LFI/FLF	RF	MF/MSF
				Open	Closed	Dovetail for B-Block	Flange with nut	Flange with nut	Clip-on flange without nut (for release latch)	Middle flange with/without nut
			Attachment to the PCB	No	No	using accessories with nut	optional screw	Solder pin	Solder pin	Solder pin (partial)
		Attachment to the rail		Male connectors						
										
				Socket blocks						
										
OMNIMATE Signal and Power	G	Closed	No			●	●	●	●	●	●	
	B	Dovetail for B-Block	about bolt-on accessories			●	●	●	●	●		
	F	Flange	Screw			●	●	●	●	●		
	FI	Inverted flange	Nut			●	●	●	●	●		
	LH	Release lever	No			●	●	●	●	●		
	LR	Release latch	Tack			●	●	●	●	●	●	
OMNIMATE Power	F	Flange	Locking clasp					●				
	FI/SFI	Inverted flange	Snap hook / with screw					●	●			
	MF/MSF	Middle flange	Snap hook / with screw								●	

Female plug

Male plug

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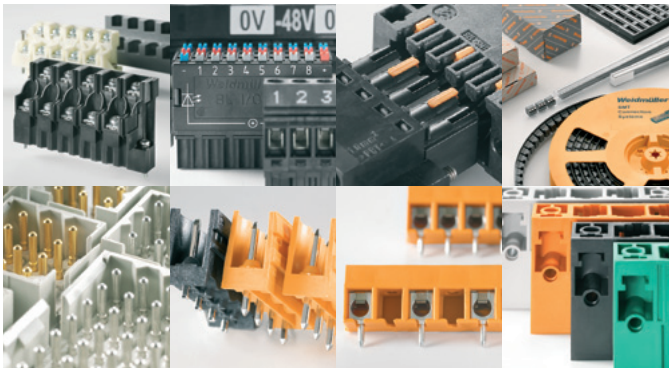
- Consistently reliable, maintenance-free, secure connections

Let´s connect



Addresses worldwide

AE **United Arab Emirates**
Weidmuller Middle East FZE
P.O. Box 8591
SAIF-Zone
Sharjah U. A. E.
Phone +971 6 5572723
Fax +971 6 5572724
wme.info@weidmueller.com

AR **Argentina**
CPI SA
Bauness 2660
1431 Buenos Aires
Phone +54 11 45238008
Fax +54 11 45220546
info@cpi.com.ar
www.cpi.com.ar

AT **Austria**
Weidmüller GmbH Austria
Straße 2, Industriezentrum Nö
Süd Straße 2b M59
2355 Wiener Neudorf
Phone +43 2236 6708-0
Fax +43 2236 6708-199
office.at@weidmueller.com

AU **Australia**
Weidmüller Pty. Ltd.
P.O.Box 6944
Huntingwood Drive 43
Huntingwood,
NSW, 2148
Phone +61 2 9671-9999
Fax +61 2 9671-9911
info@weidmuller.com.au
www.weidmuller.com.au

AZ **Azerbaijan**
West Industries Ltd.
Caspian Plaza, 5-th Floor
44 J. Jabbarly Str., Baku
Phone +99412 499 15 15
Fax +99412 499 14 93
sales@west-i.com

BA **Bosnia and Herzegovina**
BH ES ELEKTROSISTEM d.o.o.
Bul. Vojvode S.
Stepanovica kod br. 272
78000 BiH - Banja Luka
Phone +387 51 420-340
Fax +387 51 420-341
elsist@inecco.net
www.elektrosistem.ba

BE **Belgium**
Weidmüller Benelux B.V.
Mechelsesteenweg 519 bus 6 en 7
1930 Nossegem
Phone +32 2 752 4070
Fax +32 2 751 3606
info@weidmueller.be
www.weidmueller.be

BG **Bulgaria**
Weid-Bul EOOD
1756 Sofia
13, bul. „Kliment Ohridski"
Phone +359 2 9632560
Fax +359 2 9631098
sofia@weidbul.com
www.weidbul.com

BH **Bahrain**
Khayber Trading Company
P.O. Box 1976 Manama,
Phone +973 720747
Fax +973 720331
khayber@batelco.com.bh

BR **Brazil**
Weidmüller Conexel do Brasil
Conexões Elétricas Ltda.
Rua Garcia Lorca, 176
09695-900, Sao Paulo SP
Phone +55 11 43669600
Fax +55 11 43621677
vendas@conexel.com.br
www.conexel.com.br

BY **Belarus**
Technikon Ltd.
Oktyabrskaya Str. 16/5
Apt. 704, Minsk 220801
Phone +375 17 2275830
Fax +375 17 2275830
technikon@belsonet.net

CA **Canada**
W Interconnections Canada Ltd.
10 Spy Court, Markham,
Ontario L3 R5 H6
Phone +1 905 475-1507
Fax +1 905 475-2798
info1@weidmuller.ca
www.weidmuller.ca

CH **Switzerland**
Weidmüller Schweiz AG
Rundbuckstraße 2
8212 Neuhausen am Rheinfall
Phone +41 52 6740707
Fax +41 52 6740708
info@weidmueller.ch
www.weidmueller.ch

CL **Chile**
Felipe Bahamondes S.A./ATS AGRO
Maria Luisa Santander 0475
Casilla 3425
Santiago
Phone +56 2 341-1271
Fax +56 2 341-1275
felipe@atsintech.com

CN **China**
Weidmüller Interface International
Trading (Shanghai) Co., Ltd.
25F, BM Intercontinental Business
Center,
100 Yutong Road,Shanghai 200070
P.R. China
Phone +86 21 22195008
Fax +86 21 22195009
www.weidmueller.com.cn

CO **Colombia**
Automatización Avanzada S. A.
Carrera 97 No.24c, 23 B4
4 Bogotá D. C.
Phone +57 1 5478510
Fax +57 1 4223044
comercial@
automatizacionavanzada.com
www.automatizacionavanzada.com

CR **Costa Rica**
ELVATRON S.A.
la Uruca 400 Norte
Banco Costa Rica
San José Costa Rica
Phone +506 2 961060
Fax +506 5 200609
dirk.haase@elvatron.com
www.elvatron.com

CZ **Czech Republic**
Weidmüller s. r. o.
Lomnického 5/1705
14000 Praha 4
Phone +420 2 44001400
Fax +420 2 44001499
office@weidmueller.cz
www.weidmueller.cz

DE **Germany**
Weidmüller GmbH & Co. KG
P.O. Box 3054
32720 Detmold
Ohmstraße 9
32758 Detmold
Phone +49 5231 1428-0
Fax +49 5231 1428-116
weidmueller@weidmueller.de
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DK **Denmark**
Wexøe A/S
Lejrvej 31
3500 Vaerloese
Phone +45 45465800
Fax +45 45465801
wexoe@wexoe.dk
www.wexoe.dk

EC **Ecuador**
Elsystec S. A. Electricidad
Sistemas y Tecnología
Vasco de Contreras N35-25
y Mañosca, Quito
Phone +593 2 2456510
Fax+593 2 2456755
Elsystec@uio.satnet.net

EE **Estonia**
Soots Interface OÜ
Pärnu mnt 142
11317 Tallinn
Phone +372 5296177
Fax +372 6096933
info@sootsinterface.ee
www.sootsinterface.ee

EG **Egypt**
Standard Electric (OMEGA)
87, Mohamed Farid Street
Heliopolis, Cairo
Phone +20 26422977
Fax +20 26422955
stdelec@rite.com

ES **Spain**
Weidmüller S. A.
Narcis Monturiol 11-13
Pol. Ind. Sudoeste
08960 Sant Just Desvern
Barcelona
Phone +34 93 4803386
Fax +34 93 3718055
weidmuller@weidmuller.es
www.weidmuller.es

FI **Finland**
JUHA-ELEKTRO OY
P. O. Box 57, 641 Helsinki
Kylvöpolku 6, 680 Helsinki
Phone +358 10 8328 100
Fax +358 10 8328 109
info@juha-elektro.fi
www.juha-elektro.fi

FR **France**
Weidmüller E. U. R. L.
12, Chaussée Jules César
B.P. 263 Osny
95523 Cergy Pontoise Cedex
Phone +33 1 34245500
Fax +33 1 34245501
mail@weidmuller.fr

GB **Great Britain**
Weidmüller Ltd
Klippon House
Centurion Court Office
Meridian East, Meridian Business Park
Leicester, LE19 1TP
Phone +44 1162 823470
Fax +44 1162 893582
marketing@weidmuller.co.uk

GR **Greece**
Electrorama S.A.
1 An. Martali Str.
41335 Larissa
Phone +30 2410 552533188
Fax +30 2410 283463189
valvizos@electrorama.com.gr

Greece
GA Contact Solutions
11, Ippokratous Str.
14452 Metamorfosi Attika
Phone +30 210 2823233
Fax +30 210 2823233
gasaless@gmail.com

HK **Hong Kong**
Weidmuller (Hong Kong) Limited
1401 Hutchinson HSE
10 Harcourt RD
Hong Kong

HR **Croatia**
Elektro Partner d.o.o.
Slavonska Avenija 24/6
10000 Zagreb
Phone +385 1 6184793
Fax +385 1 6184795
elektropartner@zg.t-com.hr

HU **Hungary**
Weidmüller Kft
Gubacsi út 6
1097 Budapest
Phone +36 1 3827700
Fax +36 1 3827701
info@weidmueller.hu

ID **Indonesia**
PT. Nego Electrindo
Ruko Mega Grosir Cempaka Mas, Blok
I No 20 – 22
Jl. Let.Jend. Suprato –
Jakarta 10640
Phone +62 21 42882255
Fax +62 21 42882266
sales@negoelectrindo.co.id

IE **Ireland**
Please contact Weidmüller Ltd. in
Great Britain

IL **Israel**
A.U.Shay Ltd.
P.O. Box 10049
Embar Street 23/25
49222 Petah-Tikva
Phone +972 3 9233601
Fax +972 3 9234601

Israel
ATEKA Ltd.
23 Hayetzira
St. Kiryat Aryeh
49130 Petah-Tikva
Phone +972 3 9392344
Fax +972 3 9243273
marketing@ateka.co.il
www.ateka.co.il

IN **India**
Weidmuller Electronics India Pvt. Ltd
Plot # 32, 3rd Floor, North Court
Lane North Avenue, Opp Jogger's Park
Kalyani Nagar, Maharastra
411006 Pune
Phone +91 9049800960
Nitish.Rajan@weidmueller.de

IR **Iran**
Tamin Ehtiajat Fani Tehran (TAF Co.)
72, Iranshahr Ave.(Unit # 5)
15816 Tehran
Phone +98 21 8831-7851
Fax +98 21 8882-0268
tafco@safineh.net

IS **Iceland**
Samey Automation Center
Lyngas 13, 210 Garoabaer,
Phone +354 510 5200
Fax +354 510 5201
samey@samey.is

IT **Italy**
Weidmüller S.R.L.
Via Albert Einstein 4
20092 Cinisello Balsamo
Milano
Phone +39 02 660681
Fax +39 02 6124945
weidmuller@weidmuller.it
www.weidmuller.it

JO **Jordan**
Horizons
P.O.Box: 330607
Amman Jordan 11133
Phone +962 6 4882114
Fax +962 6 4882115
horizons@go.com.jo

JP **Japan**
Nihon Weidmüller Co. Ltd.
Sphere Tower Tennoz,
2-2-8 Higashi-Shinagawa,
Shinagawa-Ku, Tokyo 140-0002
Phone +81 3 6711-5300
Fax +81 3 6711-5333
www.weidmuller.co.jp

KR **Korea**
Weidmüller Korea Co., Ltd.
6floor, Sukyoung building, 242-54
Nonhyun-dong, Kangnam-Gu
Seoul, Korea
Zip: 135-830
Phone +82 2 5160003
Fax +82 2 5160090
info@weidmuller.co.kr

KW **Kuwait**
KANA CONTROLS General
Trading & Cont. CO. W.L.L.
Al Rai Industrial Area,
Plot 28-30, St. 31
P.O.Box: 25593
Safat, 13016
Phone +966-474 1373/4
Fax +966-474 1537
info@kanacontrols.com

Group companies DE

Agency abroad DE

Without own Agency DE

LB **Lebanon**
Progress Engineering & Trading Enterprises
Al Nahr Street
Beirut
Phone +961 1 444664
Fax +961 1 561880
progress@inco.com.lb

LT **Lithuania**
ELEKTROS IRANGA
Tinklu g.29a, 5319 Panevezys
Phone +370 45582828
Fax +370 45582727
info@eliranga.lt

LU **Luxembourg**
Please contact Weidmüller Benelux B.V. in the Netherlands

LV **Latvia**
SIA „ABI4"
Daugavgrivas str. 31b
1007 Riga
Phone +371 67470999
Fax +371 67465637
abi_4@tvnet.lv

MD **Moldova**
BERHORD A&D srl
44, srt. Sarmizegetusa 37/3
Off 414. b-dul Decebal, 3,
Chisinau, MD 2001
Phone +373 22 507137
Fax +373 22 507134
atiuleanu@berhord.com

ME **Montenegro**
Please contact
ES-YU Elektrosistem in Serbia

MK **Macedonia**
ELEKTRO – SMK dooel
UL. III Makedonska brigada b.b.
1000 Skopje
Phone +389 22 460 295
Fax +389 22 460 298
Elektro-smk@telekabel.net.mk

MT **Malta**
E. S. S., Electrical Supplies & Services Ltd
104 J. Sciberras Str.
Hamrun HMR 08
Phone +356 21 255 777
Fax +356 21 255 999
robert@ess.com.mt

MU **Mauritius**
MUBELO Electrical Ltd
Office 26, Gateway building,
St Jean Road, Quatre Bornes
Phone +230 467 0989
Fax +230 465 4051
richard.mubelo@orange.mu

MX **Mexico**
W Interconnections, S.A. DE C.V.
Blvd. Hermanos Serdán No. 698
Col. San Rafael Oriente
Puebla, C.P. 72029
Phone +52 222 22686227
clientes@weidmuller.com.mx

MY **Malaysia**
Connect Plus Technology Sdn Bhd
No. 43, Jalan PJS 11/22,
Bandar Sunway, 46150 Petaling Jaya
Selangor Darul Ehsan
Phone +60 3 5633 7363
Fax +60 3-5633 6562
paul@cptech.com.my
www.cptech.com.my

NL **Netherlands**
Weidmüller Benelux B.V.
Franciscusweg 221
1216 SE Hilversum
Postbus 1505
1200 BM Hilversum
Phone +31 35 6261261
Fax +31 35 6232044
info@weidmuller.nl

NO **Norway**
Siv. Ing. J. F. Knudtzen A/S
Billingstadsletta 97
P.O. Box 160
1378 Nesbru
Phone +47 66 983350
Fax +47 66 980955
firmapost@jfknudtzen.no
www.jfknudtzen.no

NZ **New Zealand**
Cuthbert S. Steward Limited
27 Te Puni Street
POB 38496
Petone, Wellington
Phone +64 4 5686156
Fax +64 4 5686056
info@weidmueller.de

OM **Oman**
DAN INTERNATIONAL LLC.
PO.BOX 2901
111 Seeb
Phone +968 503 677
Fax +968 503 755
yedu@danintl.com

PE **Peru**
IMGEPRO DEL PERU S.A.C.
ca. ortiz de Zevallos 105, esquina con vargas macucha, Miraflores,
Lima, Peru
Phone +511 447 5608
imgepro@gmail.com
www.imgepro.com.pe

Peru
J & W CIA. S.A.
Calle 6 Mz. D Lte. 23
Urb. Ind. Grimanesa
Callao 01
Phone +51 1 57 22539
Fax +51 1 57 20152
lespinoza@jwcia.com
www.jwcia.com

PH **Philippines**
Enclosure Systems Specialists Inc
Room 103 Narra Building
2276 Don Chino Roces Avenue
Makati City 1231
Phone +63 2 813 8580
Fax +63 2 813 8596
sales_encsys@pldtdsl.net

PK **Pakistan**
Kana Controls (Pak)
Apartment No. 33 C III
Chenab Block,
Allama Iqbal Town
Lahore, Pakistan
Phone +92 42 5419948
+92 42 7845160
Fax +92 42 5422895
nadeem@kanapak.com
www.kanapak.com

PL **Poland**
Weidmüller Sp. z o.o.
Ul. Goledzinowska 10
03-302 Warszawa
Phone +48 22 5100940
Fax +48 22 5100941
biuro@weidmuller.com.pl
www.weidmuller.pl

PT **Portugal**
Weidmüller Sistemas de Interface S. A.
Estrada Outeiro Polima, R. Augusto Dias da Silva, Lote B, Esct. 2
2785-515 Abóboda -São Domingos de Rana
Phone +351 21 4459191
Fax +351 21 4455871
www.weidmueller.pt

QA **Qatar**
Doha Motors Trading Co.
(Technical Division)
Post Box No. 145
Airport Road
Doha - Qatar
Phone +974 465 1441
Fax +974 465 0925
dmtctech@qatar.net.qa

RO **Romania**
Rominterface Impex SRL
Str. Gh. Dem Teodorescu 30 A
30916 Bucuresti - sector 3
Phone +40 21 3220230
Fax + 40 21 3228857
office@rominterface.ro

RS **Serbia**
ES-YU Elektrosistem
Pariske komune 41
11070 Novi Beograd, Serbia
Phone +381 11 3018660
Fax +381 11 2693608
esyu@eunet.rs
www.elektrosistem.co.rs

RU **Russia**
OOO Weidmüller
Warshavskoye highway, 25A, bld. 6
117105 Moscow
Phone +7 4 95 771-6940
Fax +7 4 95 771-6941
info@weidmueller.ru
www.weidmueller.ru

SA **Saudi Arabia**
Al Abdulkarim Holding Co.
P.O Box. 4
Dammam 31411
Phone +9668337110
Fax +9668338242
salehsk@akh.com.sa
www.akte.com.sa

Saudi Electric Supply Co.
P.O. Box 3298
Al Khobar 31952
Phone +966 3 882 9546227
Fax +966 3 882 9547
Safdar.malik@sesco-ge.com

SE **Sweden**
Weidmüller AB
Axel Daniessons väg 271
P.O. box 31025
200 49 Malmö
Phone +46 (0) 7 71 43 00 44
Fax +46 (0) 40 37 48 60
info@weidmuller.se
www.weidmuller.se

SG **Singapore**
Weidmuller Pte. Ltd.
70 Bendemeer Road
#04-03 Luzerne
Singapore 339940
Phone +65 6841 5311
Fax +65 6841 5377
info@weidmuller.com.sg
www.weidmuller.com.sg

SI **Slovenia**
Elektrospoji d.o.o.
Stegne 25, 1000 Ljubljana
Phone +386 15113810
Fax +386 15111604
info@elektrospoji.si
www.elektrospoji.si

SK **Slovakia**
ELEKTRIS s.r.o.
Elektrárenská 1
83104 Bratislava
Phone +421 2 49200113
Fax +421 2 49200119
bratislava@elektris.sk

TH **Thailand**
Pisanu Engineering Co., Ltd
800/43-45 Soi Trakulsuk
Asoke-dindaeng Road,
Dindaeng, Bangkok 10400
Phone +66 2 245 9113
Fax +66 2 6429220
jayasankar@pisanu.co.th
www.pisanu.co.th

TN **Tunisia**
Please contact
Weidmüller E.U.R.L. in France

TR **Turkey**
Weidmüller Elektronik Ticaret Ltd. Sirketi
Kavacik Mah. Orhan Veli Kanik
Caddesi 9/1
34810 Beykoz – Istanbul
Phone +90 216 5371070 (Pbx)
Fax +90 216 5371077
info@weidmuller.com.tr
www.weidmuller.com.tr

TW **Taiwan**
Fittatek Co., Ltd.
12F No. 185 Fu-Kuo Road,
Tso Ying Dist, Kaohsiung
Phone +886 7 556 0858
Fax +886 7 556 3279
stanley@fittatek.com.tw
www.fittatek.com.tw

Taiwan
Eucan Enterprise Ltd.
No. 145 He Ping 2nd Rd
Kaohsiung
Phone +886 7 715 6610
Fax +886 7 715 8748
mark@eucan.com.tw
www.eucan.com.tw

UA **Ukraine**
TEKO INTERFACE ooo
ul. Lewanewskogo 6
03058 Kiev
Phone +38 044 401 09 90
Fax +38 044 401 08 64
weidmueller@tekointerface.com
www.tekointerface.com.ua

US **United States**
W-Interconnections Inc.
821 Southlake Boulevard,
Virginia - Richmond 23236
Phone +1 804 7942877
Fax +1 804 3792593
info@weidmuller.com
www.weidmuller.com

UY **Uruguay**
Rewo Uruguay S.A
Av. Bolivia 2001 Esq Rocafuerte
Carrasco Montevideo 11300
Phone / Fax +598 260 48439
clorda@rewouruguay.com.uy

UZ **Uzbekistan**
OOO "Elektro Potential"
Gani Mavljanova str., 2B
100084 Tashkent
Phone +998 98-3003821
Fax +998 71-1249286
mz1958@yandex.ru

VE **Venezuela**
Somerinca C.A.
Quinta Sagrado Corazon de Jesus -3ra Transversal - Los Dos Caminos,
Caracas 1070 - A
Phone +58 212 2352748
Fax +58 212 2399341
klocmoeller@cantv.net
www.kmsomerinca.com.ve

VN **Vietnam**
AUMI Co., Ltd
E1, La Thanh Hotel,
218 Doi Can Street,
Lieu Giai Ward, Ba Dinh District,
Hanoi City
Phone +84 4762 8601
Fax +84 4266 1391
aumi@aumi.com.vn

Linh Kim Hai Co,. Ltd
78 Hoa Cuc Street Ward 7,
Phu Bhuan District,
Ho Chi Minh City
Phone +84 8517 1717
Fax +84 8517 1818
lkh@linhkimhai.com.vn

ZA **South Africa**
Phambili Interface (Pty) Ltd
P.O. Box 193, 1609 Johannesburg
5 Bundo Road, Sebenza
1610 Johannesburg, Endenvale
Phone +27 11 452 1930
Fax +27 11 452 6455
sales@weidmuller.co.za
www.radinterface.co.za

DE **Other countries**
Weidmüller Interface GmbH & Co. KG
Postfach 3030
32720 Detmold
Klingenbergstraße 16
32758 Detmold
Phone +49 5231 14-0
Fax +49 5231 14-292083
info@weidmueller.de
www.weidmueller.com

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Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
32758 Detmold, Germany
T +49 5231 14-0
F +49 5231 14-292083
info@weidmueller.com
www.weidmueller.com

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