

PCB Terminals, PCB Connectors, Through-Panel Terminals

Product Overview

OMNIMATE - Device connectivity



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.



2 OMNIMATE Signal device connectivity

includes PCB terminals and PCB plug-in connectors for devices used in industrial automation and systems engineering equipment, as well as sensor/actuator interfaces and power supplies.



22 OMNIMATE Power device connectivity

includes 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.



OMNIMATE electronics housings

In addition to device connectivity, we can also provide you with the best enclosures for industrial electronics, for mounting on 35 mm mounting DIN rails in the electrical cabinet. This is a state-of-the-art platform for controller, signal conversion and machine safety applications.

Please feel free to request more information from us.



39 OMNIMATE Services & Support

Take advantage of our service and support combination for optimising your design-in process – from the specification stage to component integration.

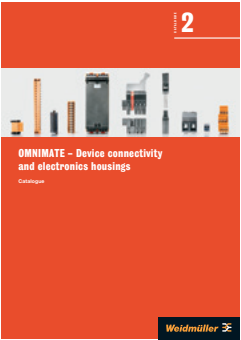
Your customised solution with Services plus Support

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.

2 OMNIMATE Signal

PCB Terminals:

- 4 Pitch from 3.5 mm to 10.16 mm
Clamping range $\leq 1.5 \text{ mm}^2$ to 6 mm^2

PCB Connectors:

- | | | |
|----|---------------------------|---------------------|
| 6 | Pitch 3.50 mm, double-row | Series B2L/S2L 3.50 |
| 8 | Pitch 3.50 mm | Series BL/SL 3.50 |
| 10 | Pitch 3.81 mm | Series BC/SC 3.81 |
| 12 | Pitch 5.00 mm | Series BL/SL 5.00 |
| 14 | Pitch 5.08 mm, Part 1 | Series BL/SL 5.08 |
| 16 | Pitch 5.08 mm, Part 2 | Series BL/SL 5.08 |
| 18 | Pitch 5.08 mm, Part 3 | Series BL/SL 5.08 |
| 20 | Pitch 5.00 mm | Series RSV |

22 OMNIMATE Power

PCB Terminals:

- | | | |
|----|---|-----------------|
| 24 | Pitch from 10.16 mm to 16 mm ² | Series LU & LUP |
| 24 | Pitch from 12.70 mm to 16 mm ² | Series LUP |
| 24 | Pitch from 15.00 mm to 25 mm ² | Series LX |
| 24 | Pitch from 15.00 mm to 50 mm ² | Series LXXX |

PCB Connectors:

- | | | |
|----|--|--------------------|
| 26 | Pitch from 7.62 mm to 4 mm ² | Series BL/SL 7.62 |
| 28 | Pitch from 7.62 mm to 6 mm ² | Series BV/SV 7.62 |
| 30 | Pitch from 7.62 mm to 6 mm ² , hybrid | Series BV/SV 7.62 |
| 32 | Pitch from 10.16 mm to 16 mm ² | Series BU/SU 10.16 |
| 34 | Pitch 7.62 and 10.16 mm, for IT systems | |

Through-Panel Terminals:

- | | | |
|----|--|-------------|
| 36 | Connects wire cross-sections
from 4 mm ² to 95 mm ² | Series W GK |
|----|--|-------------|

38 Connector flange options

39 Services & Support

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:

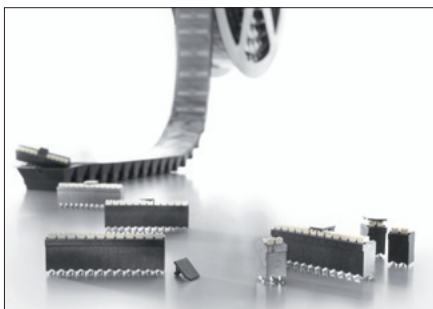
- Application-oriented connection systems ranging from clamping-yoke screw to PUSH IN spring-clamp connections
- All-purpose usage with pitches from 3.50 to 10.16 mm
- Safe for your process; quicker processing possible thanks to SMT assembly and reflow soldering
- Space-saving multi-row and multi-level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



OMNIMATE Signal connectors

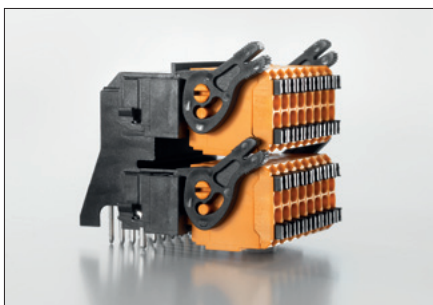


OMNIMATE Signal terminals



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).

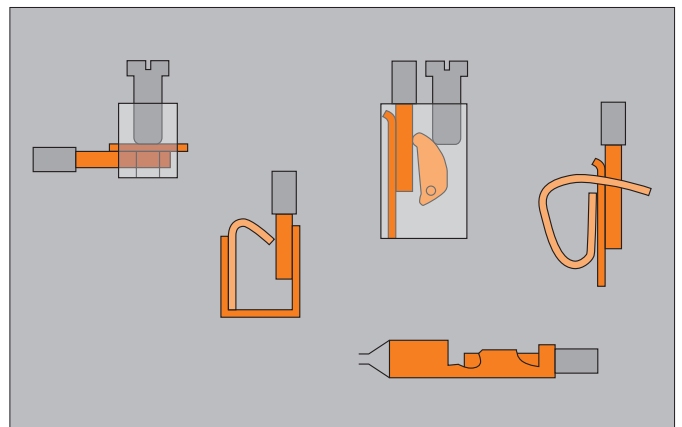
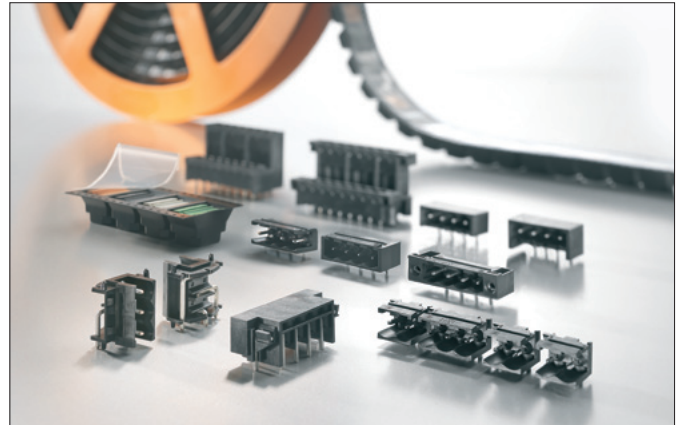
The flange options:

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

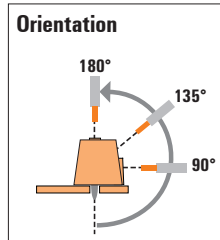
- The screw connection guarantees a globally accepted, vibration proof and maintenance free connection
- A large conductor clamping area is covered
- The "Wire Ready" technology ensures that the terminal points are fully open at delivery, even after being transported world-wide
- The "Wire Guard" protection 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		LM IEC: 320 V/16 A/0.5 - 1.5 mm ² UL: 300 V/10 A/AWG 28 - 14	●	●	
				●		
	≤ 1.5 mm ²		LS IEC: 630 V/17.5 A/0.08 - 1.5 mm ² UL: 300 V/15 A/AWG 28 - 14	●		
				●		
	≤ 2.5 mm ²		LM IEC: 630 V/17.5 A/0.2 - 2.5 mm ² UL: 300 V/15 A/AWG 24 - 14	●	●	
				●		●
	≤ 6.0 mm ²		LP IEC: 500 V/32 A/0.5 - 6 mm ² UL: 300 V/20 A/AWG 26 - 12	●	●	
				●		●
	≤ 6.0 mm ²		LL IEC: 500 V/32.5 A/0.5 - 6 mm ² UL: 300 V/20 A/AWG 28 - 12	●		
				●		
	TOP		TOP1.5GS IEC: 630 V/24 A/0.5 - 2.5 mm ² UL: 300 V/10 A/AWG 26 - 14	●		
				●		●
	≤ 2.5 mm ²		TOP1.5GS IEC: 630 V/24 A/0.5 - 2.5 mm ² UL: 300 V/10 A/AWG 26 - 14	●		
				●		●
	≤ 6.0 mm ²		TOP4GS IEC: 320 V/32 A/0.5 - 6 mm ² UL: 300 V/30 A/AWG 26 - 10	●		
				●		●
	Leaf spring		PS IEC: 320 V/17.5 A/0.2 - 1.5 mm ² UL: 300 V/10 A/AWG 28 - 16	●		
				●		
	≤ 1.5 mm ²		PS IEC: 320 V/17.5 A/0.2 - 1.5 mm ² UL: 300 V/10 A/AWG 28 - 16	●		
				●		
	≤ 2.5 mm ²		PM IEC: 600 V/24 A/0.13 - 2.5 mm ² UL: 300 V/15 A/AWG 26 - 14	●		
				●		
Spring	PUSH IN		LSF-SMT IEC: 320 V/17.5 A/0.2 - 1.5 mm ² UL: 300 V/12 A/AWG 24 - 16	●	●	
						●
	≤ 1.5 mm ²		LSF-SMD IEC: 320 V/17.5 A/0.2 - 1.5 mm ² UL: 300 V/12 A/AWG 24 - 16			●
	Tension clamp		LMZF IEC: 630 V/24 A/0.13 - 2.5 mm ² 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																
	●	●														
	●															
							●									
				●			●	●	●							
				●			●									
				●			●									
				●	●		●	●	●		●	●			●	●
				●			●				●	●				
				●			●				●	●				
				●	●	●	●	●	●				●	●		
							●					●				
							●					●				
												●				
												●				
	●	●		●	●		●				●	●				
	●	●		●	●		●				●	●				
	●	●		●	●		●				●	●				
	●	●														
				●			●	●	●		●	●			●	●

<http://www.OMNIMATE.net>

Wire to board

Board to board

Wire to wire

Board to wire

Orientation

Series B2L/S2L 3.50

		Levels				
		Type	Orientation	Flange options	IEC / UL	
Female header	 Spring: PUSH IN		B2CF	180°	(G)/F/LR	IEC: 320 V/10.3 A/0.14 - 1.5 mm ² UL: 300 V/10 A/AWG 28 - 16 preliminary technical data
	 Tension clamp		B2L	180°	(G)/F/LH	IEC: 200 V/10.3 A/0.2 - 1 mm ² UL: 150 V/10 A/AWG 28 - 16
Female plug	 Tension clamp (with internal cross connection)		B2L 0V	180°	(G)/F/LH	IEC: 200 V/10.6 A/0.2 - 1 mm ² 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

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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
						
						
						

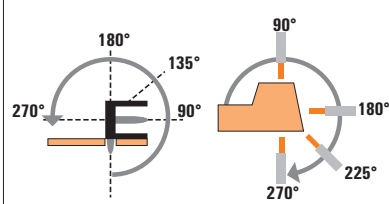
<http://www.OMNIMATE.net>
 = Wire to board

 = Board to board

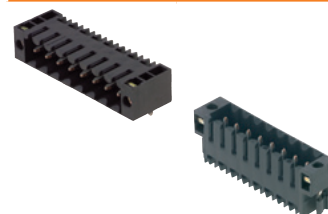
 = Wire to wire

 = 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				
 Screw: Clamping yoke		BL	180°	(G)/F/LH/LR	IEC: 320 V/17 A/0.2 - 1.5 mm ² UL: 300 V/10 A/AWG 28 - 14				
		BL	90°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm ² UL: 300 V/8 A/AWG 28 - 14				
		BL	270°	(G)/F	IEC: 320 V/12 A/0.2 - 1.5 mm ² UL: 300 V/8 A/AWG 28 - 14				
	 Tension clamp		BLZF	180°	(G)/F/LH/LR	IEC: 320 V/14.5 A/0.2 - 1.5 mm ² UL: 300 V/10 A/AWG 26 - 14			
	 IDC Bus		BLIDCB	180°	(G)/F	IEC: 250 V/6 A/0.35 - 0.5 mm ² UL: 300 V/7 A/AWG 22 - 20			
	 Spring: PUSH IN		BL-I/O 10 Pole	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.5 mm ² UL: ≤ 200 V/5 A/AWG 22 - 16			
		BL-I/O 30 Pole	180°	F/LR/FP	IEC: 200 V/2.2 A/0.2 - 1.5 mm ² 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

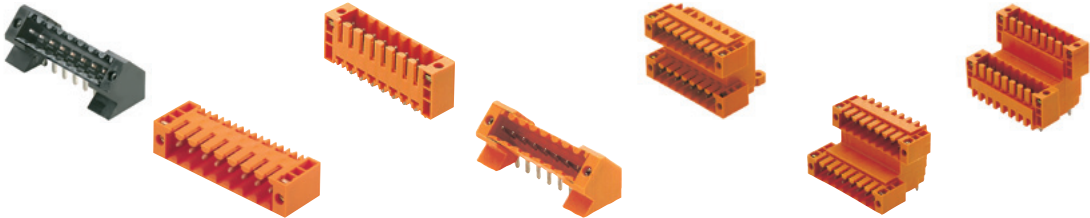
RF = Locking flange for LR with solder pin

* 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	(O)/G/F	(O)/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

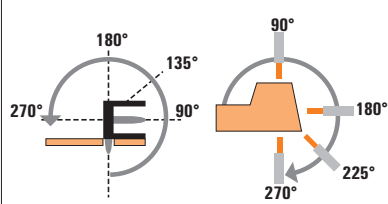
<http://www.OMNIMATE.net>
 = Wire to board

 = Board to board

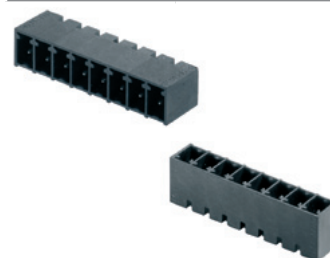
 = Wire to wire

 = Board to wire


Orientation



Male header



Series BC/SC 3.81



Levels

1

Orientation

IEC / UL

90°

180°

IEC: 320 V/17.5 A
UL: 300 V/10 AIEC: 320 V/17.5 A
UL: 300 V/10 A

Solder connection

Type

Flange options

SC

SC

G/F

G/F



Reflow solder connection

Type

Flange options

SC-SMT

SC-SMT

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)

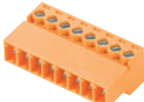
F = Screw flange with nut

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 UL: 300 V/10 A	IEC: 320 V/17.5 A/ 0.2 - 1.5 mm ² 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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● = Wire to board

● = Board to board

● = Wire to wire

● = Board to wire

Orientation

Male header

Solder connection

Series BL/SL 5.00

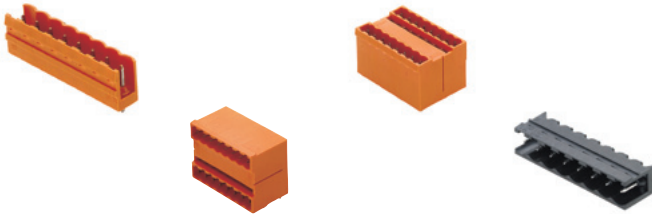
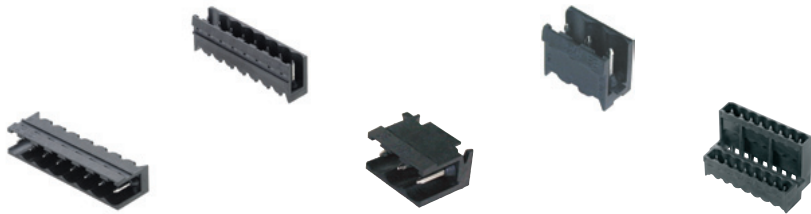
						Levels	1		
Type							SL	SL	
Orientation							90°	135°	
Flange options							(O)/B	(O)/B	
IEC / UL							IEC: 400 V/18 A UL: 300 V/15 A	IEC: 400 V/17 A UL: 300 V/15 A	
Female plug	 Screw: Clamping yoke		BLZP	180°	(G)/F/LR	IEC: 400 V/19 A/0.2 - 4 mm ² UL: 300 V/10 A/AWG 26 - 12	●	●	
			BLZP	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm ² UL: 300 V/10 A/AWG 26 - 12	●	●	
			BLZP	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm ² 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 mm ² UL: 300 V/10 A/AWG 26 - 12	●	●	
			BLF	90°	(G)/F/LR	IEC: 400 V/20 A/ 0.2 - 2.5 mm ² 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

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Male header								
 Solder connection				 Reflow solder connection				
								
1	2		1		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	
								
								
								
								
								

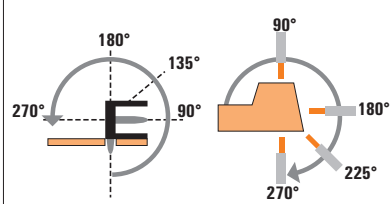
<http://www.OMNIMATE.net>
 = Wire to board

 = Board to board

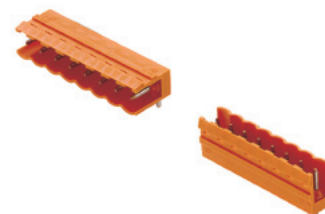
 = Wire to wire

 = Board to wire


Orientation



Solder connection



Series BL/SL 5.08 Part 1 of 3



Levels

1

Type

Orientation

Flange options male headers

IEC / UL

SL HC

SL HC

90°

180°

(0)/G/B/F/LF

(0)/G/B/F/LF

IEC: 400 V/24 A
UL: 300 V/15 AIEC: 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 - 14Clamping 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 - 14BLDZ 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

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

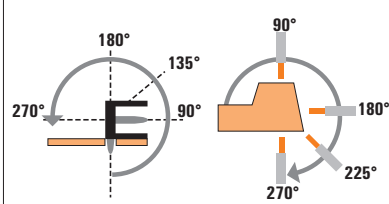
<http://www.OMNIMATE.net>
 = Wire to board

 = Board to board

 = Wire to wire

 = Board to wire

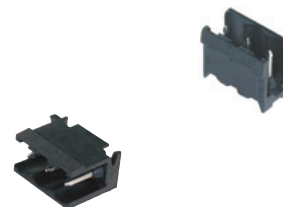

Orientation



Male header



Reflow solder connection



Series BL/SL 5.08 Part 2 of 3



Levels

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 mm ² UL: 300 V/10 A/AWG 26 - 12		
			BLZP	90°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm ² UL: 300 V/10 A/AWG 26 - 12		
			BLZP	270°	(G)/F/LR	IEC: 400 V/15.5 A/0.2 - 4 mm ² UL: 300 V/10 A/AWG 26 - 12		
			BLZP	225°	(G)/F/LR	IEC: 400 V/17.5 A/0.2 - 4 mm ² UL: 300 V/10 A/AWG 26 - 12		
	 TOP		BLT	180°	(G)/F/LR	IEC: 400 V/17 A/0.2 - 2.5 mm ² 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 mm ² UL: 300 V/15 A/AWG 26 - 14		
			BLDZ DN Devicenet	180°	(G)/F	IEC: 400 V/16 A/0.2 - 2.5 mm ² UL: 300 V/15 A/AWG 22 - 12		
			BLDT	180°	(G)	IEC: 400 V/14 A/0.2 - 2.5 mm ² 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

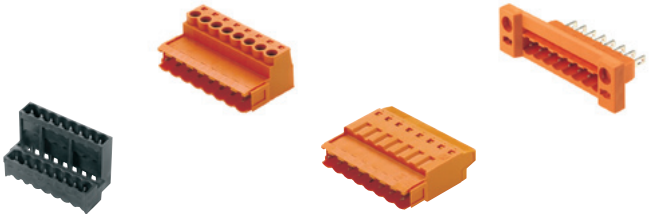
LR = Lock & Release lever

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/Fl	B/F/Fl	
	IEC: 400 V/15 A UL: 300 V/10 A	IEC: 400 V/21.5 A/ 0.2 - 2.5 mm ² UL: 300 V/15 A/ AWG 26 - 12	IEC: 400 V/16 A/ 0.2 - 2.5 mm ² 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

<http://www.OMNIMATE.net>

● = Wire to board

● = Board to board

● = Wire to wire

● = Board to wire

Orientation

Series BL/SL 5.08 Part 3 of 3

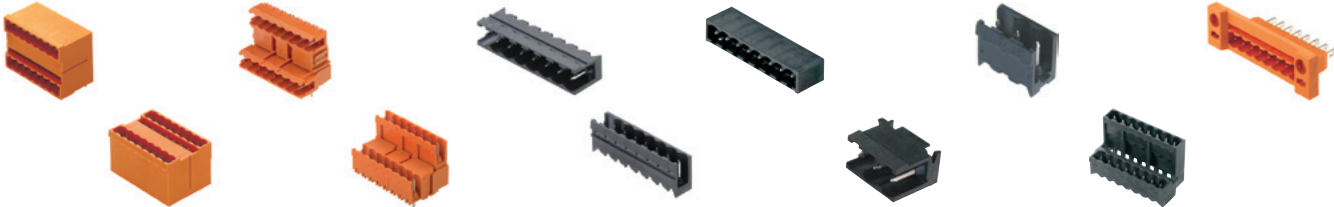
							Levels	1	
Type							SL HC	SL HC	
Orientation							90°	180°	
Flange options							(O)/G/B/F/LF	(O)/G/B/F/LF	
IEC / UL							IEC: 400 V/24 A UL: 300 V/15 A	IEC: 400 V/24 A UL: 300 V/16 A	
Female plug	 PUSH IN		BLF	180°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm ² UL: 300 V/16 A/AWG 12 - AWG 26	●	●	
			BLF	90°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm ² UL: 300 V/16 A/AWG 12 - AWG 26	●	●	
			BLF	270°	(G)/F/LR	IEC: 400 V/24 A/0.2 - 2.5 mm ² 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 mm ² 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

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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
											
											
											
											
											

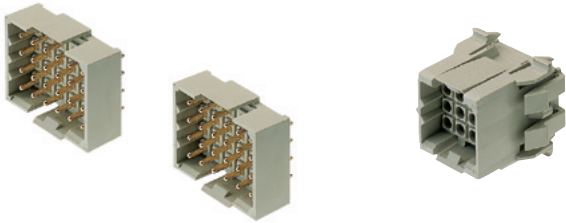
Male header and plug:**(O)*** = Open**B** = Dovetail for fixing blocks with a nut**G** = Closed**F** = Screw flange with nut**LF** = Solder flange with nut**FLF** = Flange with nut and additional solder flange

* not included in the article description

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Male header	Male plug
 Solder connection	 Crimp



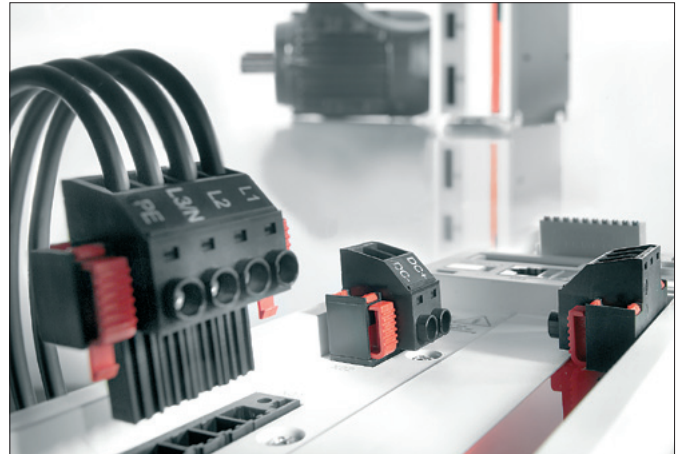
1		1
RSV1.6 LS.. SN	RSV1.6 LS.. AU	RSV1.6 CS..
Tin	Gold	Tin / Gold
(G)/F	(G)/F	(G)
IEC: 500 V/14 A UL: 300 V/10 A	IEC: 500 V/14 A UL: 300 V/10 A	IEC: 630 V/17 A UL: 600 V/10 A/AWG 26 - 12
		
		
		

OMNIMATE Power device connectivity

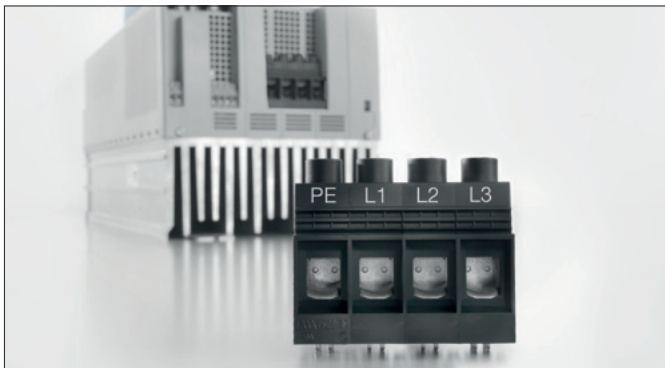
Weidmüller's OMNIMATE Power products include PCB terminals, PCB plug-in connectors and through-panel terminals for use in power electronics, particularly in inverters, frequency converters, servo drives, heavy-duty power supplies and motor starters.

The main advantages are:

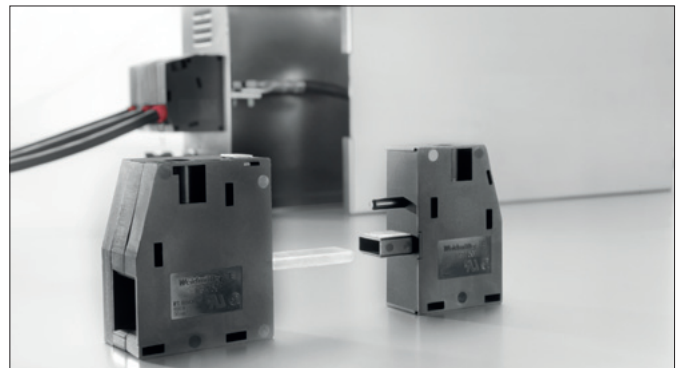
- Simple device approval in accordance with UL 600 V
- Seamless scalability from compact PCB plug-in connectors with 2.5 mm² PUSH IN spring clamp connectors through to sturdy PCB terminals with screw connections for 50 mm²
- Application oriented solutions for motor connections, with pluggable shield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



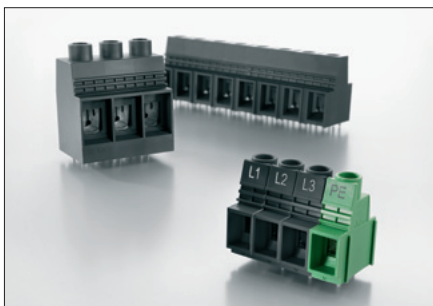
OMNIMATE Power connectors



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).

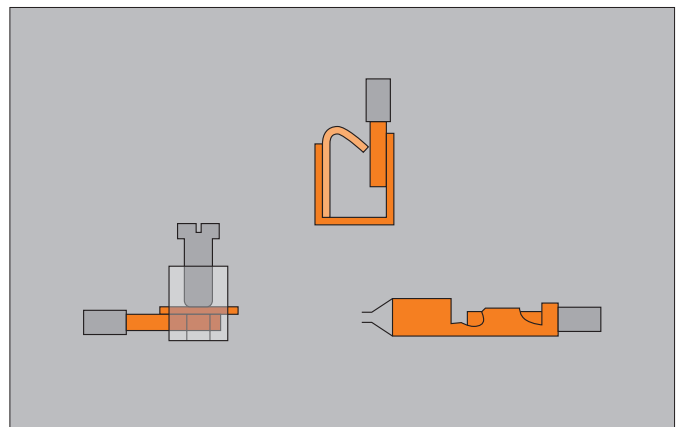
The flange options:

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



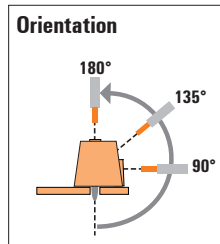
PUSH IN spring connection

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	≤ 16 mm ²	 LU 10.16	IEC: 1,000 V/76 A/0.5 - 16 mm ² UL: 300 V/65 A/AWG 26 - 6	●		
		 LUP 10.16	IEC: 1,000 V/76 A/0.5 - 16 mm ² UL: 300 V/58 A/AWG 26 - 6	●		
		 LUP 10.16/././90V*	IEC: 1,000 V/76 A/0.5 - 16 mm ² UL: 600 V/51 A/AWG 22 - 6	●		
		 LUP 12.70	IEC: 1,000 V/76 A/0.5 - 16 mm ² UL: 600 V/58 A/AWG 26 - 6	●		
	≤ 25 mm ²	 LX 15.00	IEC: 1,000 V/101 A/0.5 - 25 mm ² UL: 600 V/85 A/AWG 16 - 4	●		
		 LXB 15.00	IEC: 1,000 V/101 A/1.5 - 25 mm ² UL: 600 V/85 A/AWG 16 - 4	●		
	≤ 50 mm ²	 LXXX 15.00	IEC: 1,000 V/150 A/0.5 - 50 mm ² UL: 600 V/127 A/AWG 20 - 1	●		
		 LXXX 15.00/././90F	IEC: 1,000 V/150 A/0.5 - 50 mm ² UL: 600 V/127 A/AWG 20 - 1	●		

* With offset solder pins

[illegible]

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	Male plug	
	 Screw: Clamping yoke	 Spring: PUSH IN



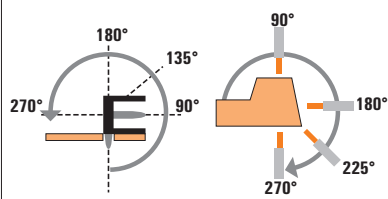
	SLZ	SLF
	180°	180°
	G/F/LR	G/F/LR
	IEC: 1,000 V/24 A/ 0.08 - 2.5 mm² UL: 600 V/17 A/ AWG 20 - 12	IEC: 1,000 V/24 A/ 0.08 - 2.5 mm² UL: 600 V/20 A/ AWG 20 - 12
	●	●
	●	●

<http://www.OMNIMATE.net>

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



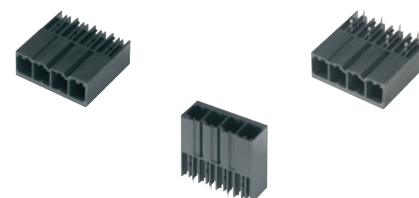
Orientation



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 mm ² UL: 600 V/35 A/AWG 24 - 10	●	●	●
			BVZ	180°	FC/SFC	IEC: 1,000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10			
			BVZ	180°	SH...	IEC: 1,000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10	●	●	●
			BVZ	180°	SH... C	IEC: 1,000 V/41 A/0.2 - 6 mm ² UL: 600 V/35 A/AWG 24 - 10			
Female plug	 Spring: PUSH IN		BVF	180°	(G)/F/SF/MF/MSF	IEC: 1,000 V/41 A/0.2 - 10 mm ² 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 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.2 - 6 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.5 - 10 mm ² UL: 600 V/35 A/ AWG 24 - 10	IEC: 1,000 V/41 A/ 0.5 - 10 mm ² 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

<http://www.OMNIMATE.net>

● = 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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<http://www.OMNIMATE.net>

● = 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
	 Solder connection		BUL	180°	on request	

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

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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
				
				

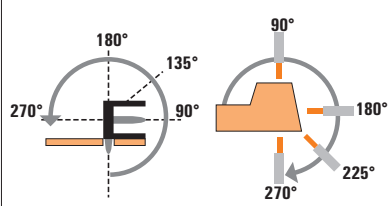
<http://www.OMNIMATE.net>
 = Wire to board

 = Board to board

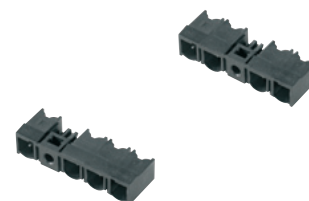
 = Wire to wire

 = 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	
	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

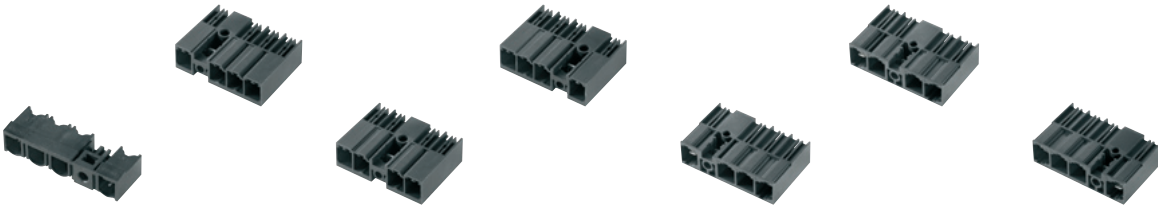
Male header



Solder connection

Pitch 7.62 mm

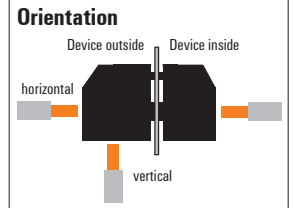
Pitch 10.16 mm



	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



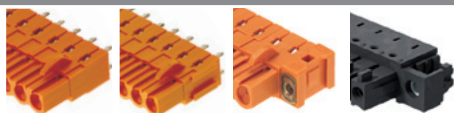
Through-Panel terminals - WGK

Device Outside	Device Inside	Clamping range IEC	Max. rated voltage IEC	Type	Outlet direction
Type of connection	Type of connection	Clamping range UL	Nominal current UL		
 Screw: Clamping yoke	 Solder connection	0.5 - 6 mm ² 30 - 10 AWG	32 A 30 A		VGK 4 horizontal
		0.5 - 10 mm ² 22 - 10 AWG	41 A 50 A		VGK 6 horizontal
	 Screw: Clamping yoke	0.5 - 6 mm ² 30 - 10 AWG	32 A 30 A		WGK 4 WGKV 4 horizontal vertical
		0.5 - 16 mm ² 24 - 6 AWG	57 A 65 A		WGK 10 WGKV 10 horizontal vertical
	 Screw: Clamping yoke	0.5 - 25 mm ² 20 - 4 AWG	76 A 85 A		WGK 16 WGKV 16 horizontal vertical
					WGK 16 VP horizontal
	 Screw: Clamping yoke	6 - 34 mm ² 10 - 3 AWG	101 A 100 A		WGK 25 WGKV 25 horizontal vertical
					WGK 25 VP horizontal
	 Screw: Clamping yoke	16 - 50 mm ² 6 - 1/0 AWG	150 A 145 A		WGK 50 horizontal
					WGK 50 VP horizontal
	 Screw: Clamping yoke	35 - 95 mm ² 4 - 4/0 AWG	232 A 230 A		WGK 95 horizontal
					WGK 95 F VP horizontal

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

Connectors flange options

- = 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)
					Male connectors						
											
					Socket blocks						
											

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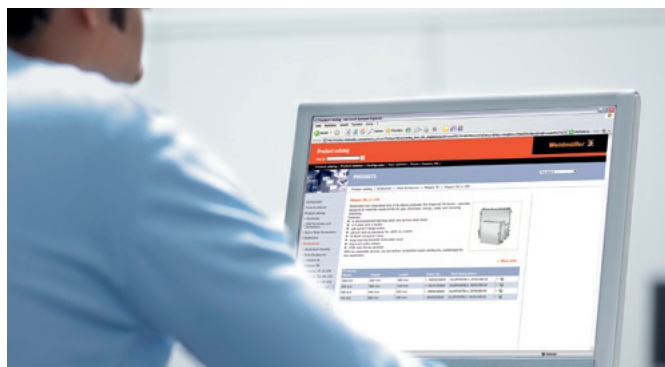
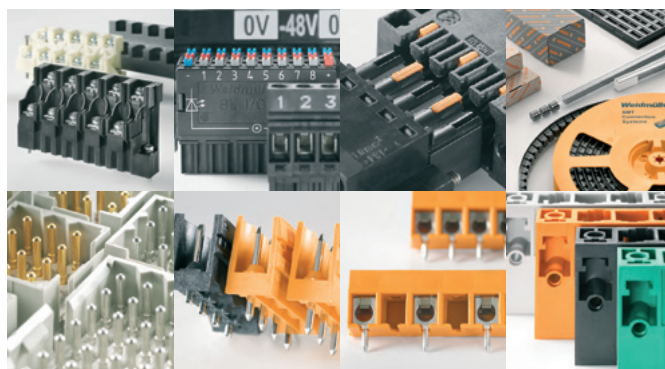
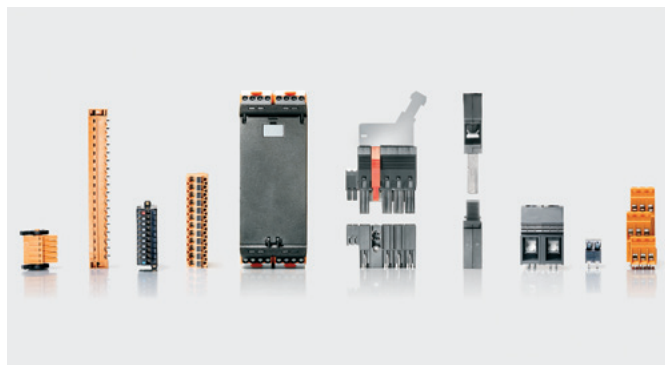
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AR	Argentina CPI SA Bauness 2660 1431 Buenos Aires Phone +54 11 45238008 Fax +54 11 45220546 info@cpi.com.ar www.cpi.com.ar	CH	Switzerland Weidmüller Schweiz AG Rundbuckstraße 2 8212 Neuhausen am Rheinfall Phone +41 52 6740707 Fax +41 52 6740708 info@weidmueller.ch www.weidmueller.ch	EG	Egypt Standard Electric (OMEGA) 87, Mohamed Farid Street Heliopolis, Cairo Phone +20 26422977 Fax +20 26422955 stdelec@rite.com	IE	Ireland Please contact Weidmüller Ltd. in Great Britain
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	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	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	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
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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	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	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	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
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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	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 www.weidmueller.de	HK	Hong Kong Weidmüller (Hong Kong) Limited 1401 Hutchinson HSE 10 Harcourt RD Hong Kong	JO	Jordan Horizons P.O.Box: 330607 Amman Jordan 11133 Phone +962 6 4882114 Fax +962 6 4882115 horizons@go.com.jo
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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
Tinklų 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 „AB14“
Daugavgrīvas str. 31b
1007 Rīga
Phone +371 67470999
Fax +371 67465637
abi_4@tvnet.lv

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

ME Montenegro
Please contact
ES-YU Elektrosistem in Serbia

MK Macedonia
ELEKTRO – SMK doool
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@cpstech.com.my
www.cpstech.com.my

NL Netherlands
Weidmüller Benelux B.V.
Franciscusweg 221
1216 SE Hilversum
Postbus 1506
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@jfkknudtzen.no
www.jfkknudtzen.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.
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Lima, Peru
Phone +51 1 447 5608
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Peru
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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 Rocas Avenue
Makati City 1231
Phone +63 2 813 8580
Fax +63 2 813 8596
sales_encsys@pltdtsl.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
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PL Poland
Weidmüller Sp. z o.o.
Ul. Goleczynska 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, Esc. 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
Varshavskoye 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.
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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 Daniéssons 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
Weidmüller 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.
Elektrárnská 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
Euacan 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
Revo Uruguay S.A.
Av. Bolivia 2001 Esq Rocafuerte
Carrasco Montevideo 11300
Phone / Fax +598 260 48439
clorda@revouruguay.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
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Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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T +49 5231 14-0
F +49 5231 14-292083
info@weidmueller.com
www.weidmueller.com

