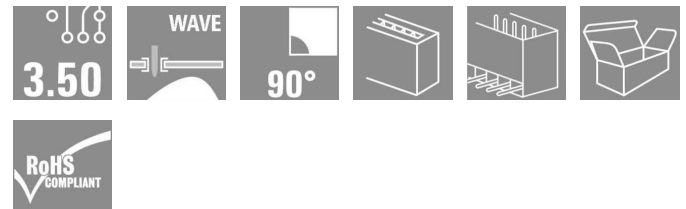
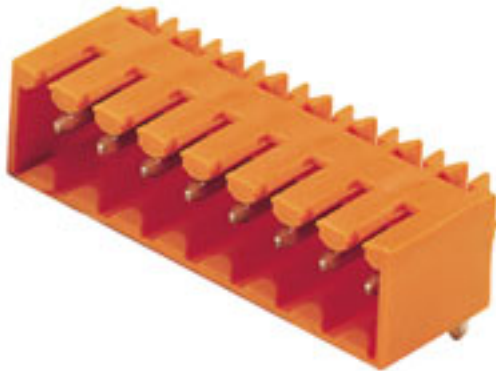


## OMNIMATE Signal - series BL/SL 3.50 SL 3.50/12/90G 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



Pin headers for wave soldering in 3.50 mm pitch

- Plugging direction is parallel (90°), straight 180° or angled (135°) to the PCB
- Housing variant: screw flange (F)
- Packed in a cardboard box (BX)
- Pin header can be coded

### General ordering data

Type	SL 3.50/12/90G 3.2SN OR BX
Order No.	<a href="#">1605170000</a>
Version	PCB plug-in connector, male header, closed side, THT solder connection, 3.50 mm, No. of poles: 12, 90°, Solder pin length (l): 3.2 mm, tinned, Orange, Box
GTIN (EAN)	4008190096342
Qty.	50 pc(s).
Product data	IEC: 320 V / 17 A UL: 300 V / 10 A
Packaging	Box

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D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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**Technical data****Dimensions and weights**

Net weight 3.66 g

**System parameters**

Product family		Mounting onto the PCB	
OMNIMATE Signal - series BL/SL 3.50		THT solder connection	
Outgoing elbow	90°	Pitch in mm (P)	3.5 mm
Pitch in inches (P)	0.138 inch	No. of poles	12
Solder pin length (l)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Plugging cycles	25	Can be coded	Yes
Number of solder pins per pole	1	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	38.5 mm
L1 in inches	1.516 inch	Insulation resistance	≥ 10 <sup>8</sup> Ω
Touch-safe protection acc. to DIN VDE 0470	IP 10	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Volume resistance	6.00 mΩ		


**Material data**

Insulating material	PBT	Colour	Orange
Insulating material group	IIIa	UL 94 flammability rating	V-0
CTI	≥ 200	Contact material	CuSn
Layer structure of solder connection	2-4 μm Ni / 5-8 μm Sn glossy	Layer structure of plug contact	2-4 undefined Ni / 5-8 undefined Sn glossy
Contact surface	tinned	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %

**Rating data acc. to IEC 60664-1 / IEC 61984**

Rated current, min. no. of poles (Ta = 20°C)	17 A	Rated current, max. no. of poles (Ta = 20°C)	12 A
Rated current, min. no. of poles (Ta = 40°C)	14.5 A	Rated current, max. no. of poles (Ta = 40°C)	10 A
Rated voltage for surge voltage class / pollution degree III/3	160 V	Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated voltage for surge voltage class / pollution degree II/2	320 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV
Short-time withstand current resistance	3 x 1s with 100 A		

**Rated data acc. to CSA**

Institute (CSA)		Certificate No. (CSA)	154685-1318353
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	10 A	Rated current (use group D)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data****Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

E60693

Rated voltage (use group B)	300 V
Rated current (use group B)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (use group D)	300 V
Rated current (use group D)	10 A

**Classifications**

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-04
eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
eClass 8.1	27-44-04-02	eClass 9.0	27-44-04-02

**Notes**

Notes

- Additional colours on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

IPC conformity

The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals



ROHS

Conform

**Downloads**

EDA Layout Library (Mentor Graphics Expedition, Mentor Graphics Pads, Altium Designer) [Select your download](#)

CAD Library (P-CAD Format - ASCII) [SL.zip](#)

CAD Library (P-CAD Format - Standard) [SL.zip](#)

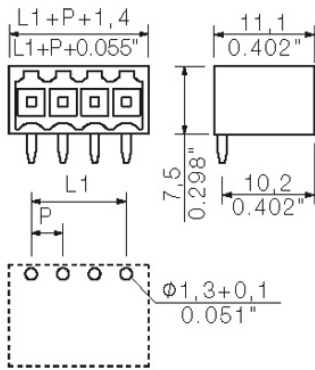
[3-D model](#)

**Data sheet**

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Drawings**



**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Mating connector (fully pluggable)**
**BL 3.50/180**


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/180 SN BK BX	<a href="#">1615730000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190060817 50 pc(s).		IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/12/180 SN OR BX	<a href="#">1597460000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190192037 50 pc(s).		IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL 3.50/90**


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/90 SN BK BX	<a href="#">1638880000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190276423 50 pc(s).		IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/12/90 SN OR BX	<a href="#">1638650000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping	4008190276195 50 pc(s).		IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box

## OMNIMATE Signal - series BL/SL 3.50 SL 3.50/12/90G 3.2SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

### Mating connector (fully pluggable)

range, rated connection,  
max.: 1.5 mm<sup>2</sup>, Box

#### BL 3.50/270



Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/270 SN OR BX	<a href="#">1639570000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277123	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/12/270 SN BK BX	<a href="#">1639800000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277352	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box

#### BLZF 3.5/180



Female connectors with tension clamp system for connecting cables in 3.50 pitch. They provide space for labelling and can be coded.

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BLZF 3.50/12/180 SN OR BX	<a href="#">1690290000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Tension clamp connection, Clamping range, rated	4008190328788	50 pc(s).	IEC: 320 V / 14.5 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 26 - AWG 14	Box

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

**Mating connector (fully pluggable)**

connection, max.: 1.5 mm<sup>2</sup>,  
Box

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Mating connector (conditionally pluggable)**
**BL 3.50/180F**


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/180F SN OR BX	<a href="#">1606740000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190147181	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/12/180F SN BK BX	<a href="#">1615880000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190063924	50 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm² UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL 3.50/90F**


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/90F SN BK BX	<a href="#">1639340000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190276881	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
BL 3.50/12/90F SN OR BX	<a href="#">1639110000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 90°, Clamping yoke connection, Clamping	4008190276652	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box



**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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**Mating connector (conditionally pluggable)**

range, rated connection,  
max.: 1.5 mm<sup>2</sup>, Box

**BL 3.50/180LH**


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/180LH SN OR BX	<a href="#">1687750000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190853303	36 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box
BL 3.50/12/180LH SN BK BX	<a href="#">1687980000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 180°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190853532	36 pc(s).	IEC: 320 V / 17 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 10 A / AWG 28 - AWG 14	Box

**BL 3.50/270F**


Female connectors with clamping yoke screw system for connecting conductors at 3.50 mm pitch. They provide space for labelling and can be coded.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
BL 3.50/12/270F SN BK BX	<a href="#">1640260000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm <sup>2</sup> , Box	4008190277840	50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm <sup>2</sup> UL: 300 V / 8 A / AWG 28 - AWG 14	Box

Creation date February 22, 2016 12:38:04 PM CET

**OMNIMATE Signal - series BL/SL 3.50  
SL 3.50/12/90G 3.2SN OR BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

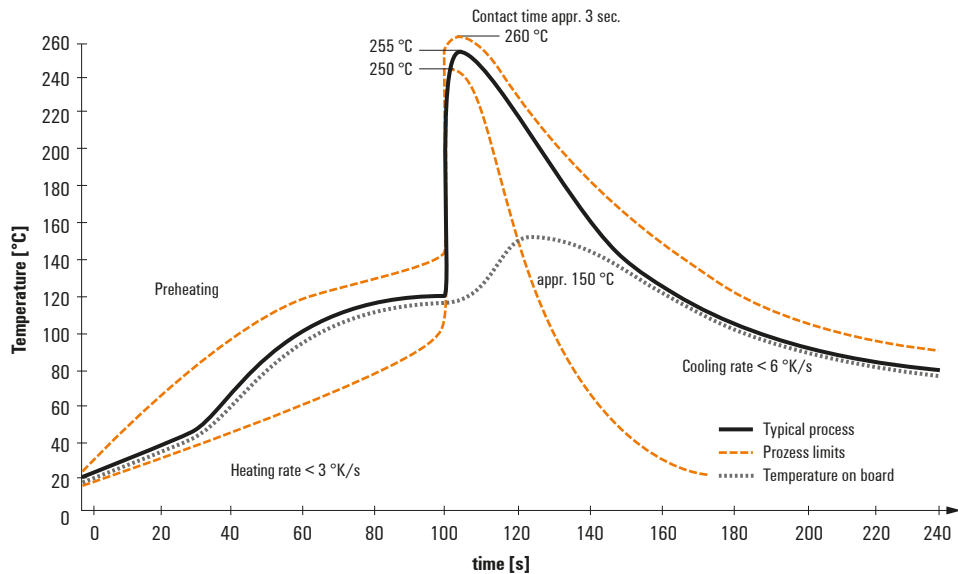
**Mating connector (conditionally pluggable)**

BL 3.50/12/270F SN OR BX	<a href="#">1640030000</a>	PCB plug-in connector, female plug, 3.50 mm, No. of poles: 12, 270°, Clamping yoke connection, Clamping range, rated connection, max.: 1.5 mm², Box	4008190277581 50 pc(s).	IEC: 320 V / 12 A / 0.2 - 1.5 mm² UL: 300 V / 8 A / AWG 28 - AWG 14	Box
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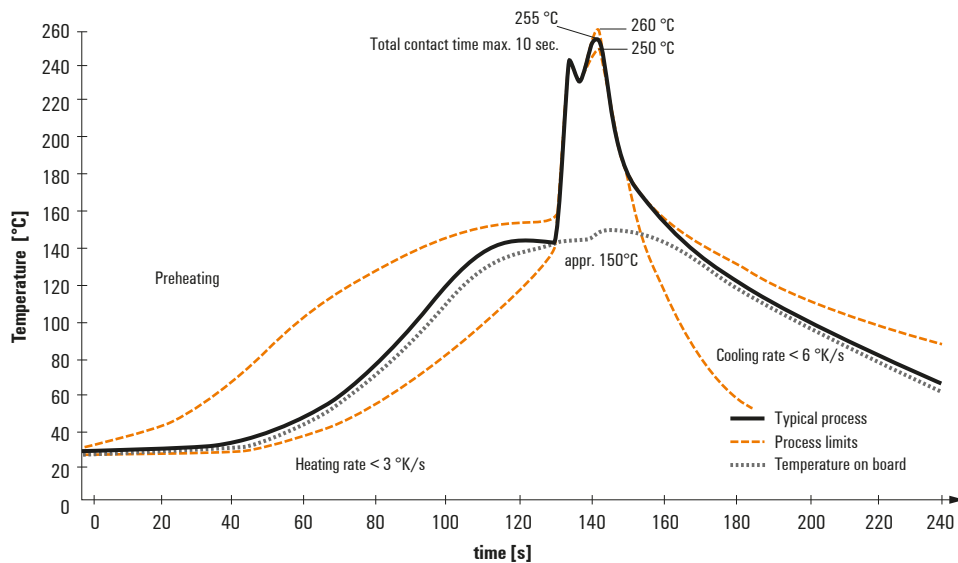
## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

# Addresses worldwide


Let's connect.


- AE United Arab Emirates**  
Weidmüller Middle East FZE  
Warehouse Q3-79  
SAIF-Zone  
P.O. BOX 8591  
Sharjah  
Telephone number +971 65572723  
Fax number +971 65572724  
wme.info@weidmueller.com
- AO Angola**  
Please contact  
Phambili Interface  
South Africa
- AR Argentina**  
CPI SA  
Bauness 2660  
C1431DOF Buenos Aires  
Telephone number +54 11 4523 8008  
Fax number +54 11 4522 0546  
info@cpi.com.ar  
www.cpi.com.ar
- AT Austria**  
Weidmüller GmbH  
IZ NOE Süd Straße 2b, Obj  
M 59  
2355 Wiener Neudorf  
Telephone number +43 2236 67080  
Fax number +43 2236 6708-899  
office.at@weidmueller.com  
www.weidmueller.com
- AU Australia**  
Weidmüller Pty. Ltd.  
PO BOX 6944  
Huntingwood 2148  
Huntingwood Drive 43  
Huntingwood NSW 2148  
Telephone number +61 2 9671 9999  
Fax number +61 2 9671 9911  
info@weidmuller.com.au  
www.weidmuller.com.au
- AZ Azerbaijan**  
Representative Office  
Weidmüller Interface  
Demirchi Tower, 4th floor  
37, Khojali ave.  
AZ 1025 Baku  
Telephone number +994 12 488 80 36  
Fax number +994 12 488 80 37  
rashad.mahmudov@weidmueller.com
- BA Bosnia and Herzegovina**  
Please contact  
our Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Serbia  
  
or  
  
BIG electric d.o.o  
Mladena Stojanovića 117A  
78000 Banja Luka  
Telephone number +387 51926277  
Fax number +387 51926277  
bigelectric@blic.net  
www.bigelectric.ba
- BE Belgium**  
Weidmüller Benelux B. V.  
Mechelsesteenweg 519 bus  
6 an 7  
1930 Nossegem  
Telephone number +32 2 752 40 70  
Fax number +32 2 751 36 06  
info@weidmueller.be  
www.weidmueller.be
- BG Bulgaria**  
Weid-Bul EOOD  
Bul. "Kliment Ohridski" 13  
1756 Sofia  
Telephone number +359 2 963 2560  
Fax number +359 2 963 1098  
sofia@weidbul.com  
www.weidbul.com
- BH Bahrain**  
Khayber Trading Company  
P.O Box 1976  
Manama  
Telephone number +973 720747  
Fax number +973 720331  
khayber@batelco.com.bh
- BR Brazil**  
Weidmüller Conexel do Brasil  
Conexões Elétricas Ltda.  
Av. Presidente Juscelino, 642  
- Piraporinha  
Diadema, São Paulo  
09950-370  
Telephone number +55 (11) 4366-9600  
Fax number +55 (11) 4362-1677  
vendas@weidmueller.com.br  
www.weidmueller.com.br
- BW Botswana**  
Please contact  
Phambili Interface  
South Africa
- BY Belarus**  
TECHNIKON Ltd.  
Nezavisimosti pr. 177-9  
220125 Minsk  
Telephone number +375 17 393-11-77  
Fax number +375 17 3930080  
wm@technikon.by
- CA Canada**  
W Interconnections Canada  
Inc.  
10 Spy Court  
Markham Ontario L3R 5H6  
Telephone number +1 (905) 475-1507 Ext. 9836  
Fax number +1 (905) 475-2798  
support@weidmuller.ca  
www.weidmuller.ca
- CG Congo**  
Please contact  
Phambili Interface  
South Africa
- CH Switzerland**  
Weidmüller Schweiz AG  
Rundbuckstraße 2  
82 12 Neuhausen am  
Rheinfall SH  
Telephone number +41 52 674 07 07  
Fax number +41 52 674 07 08  
info@weidmueller.ch  
www.weidmueller.ch
- CL Chile**  
ATS - INTECH  
María Luisa Santander 0475  
Santiago  
Providencia 7500859  
Telephone number +56 2 341 1271  
Fax number +56 2 341 1275  
felipe@atsintech.com  
www.atsintech.com  
  
CPI CHILE LTDA  
Av. Presidente Frei Montalva  
6001, 47 complejo el cortijo  
Santiago - Conchalí  
Telephone number +562 963 8440  
Fax number +562 963 8440  
cpi@cpichile.cl  
www.cpichile.cl
- CN China**  
Weidmüller Interface  
(Shanghai) Co. Ltd.  
100 Yutong Road  
25 F, BM Intercontinental  
Business Center  
200070 Shanghai  
Telephone number +86 21-22195008  
Fax number +86 21-22195009  
customer.hotline@weidmueller.com.cn  
www.weidmueller.com.cn
- CO Colombia**  
Automatización Avanzada  
S. A.  
Carrera 97 No., 24 c - 23  
Bodega 4  
110911 Bogotá-D.C.  
Telephone number +57 (1) 547-8510  
Fax number +57 (1) 422-3044  
comercial@automatizacionavanzada.com  
www.automatizacionavanzada.com
- CR Costa Rica**  
ELVATRON S. A.  
la Uruca 400 Norte Banco  
Costa Rica  
San Jose Costa Rica  
Telephone number +506 2961-060  
Fax number +506 5200-609  
dirk.haase@elvatron.com  
www.elvatron.com
- CZ Czech Republic**  
Weidmüller s.r.o.  
Lomnického 5/1705  
140 00 Praha 4  
Telephone number +420 244 001 400  
Fax number +420 244 001 499  
office@weidmueller.cz  
www.weidmueller.cz
- DE Germany**  
Weidmüller GmbH & Co. KG  
Ohmstraße 9  
32758 Detmold  
Postfach 30 54  
32720 Detmold  
Telephone number +49 5231 1428-0  
Fax number +49 5231 14-292083  
weidmuller@weidmueller.de  
www.weidmueller.de
- DK Denmark**  
Weidmüller Danmark  
Vallensbækvej 18A  
2605 Brøndby  
Telephone number +45 27747800  
kundeservice@weidmuller.dk  
www.weidmuller.dk
- DZ Algeria**  
SARL INTER ELECTRIC  
1a Angles des Rues Okba Ibn  
Nafaa et Hassi Beida  
2300 Annaba  
Telephone number  
Fax number  
contact@inter-electric.com
- EC Ecuador**  
Elsystec S. A., Electricidad  
Sistemas y Tecnología  
Vasco de Contreras N35-251 y  
Manosca  
Quito - Pichincha  
Telephone number +593 22456510  
Fax number +593 22456755  
Elsystec@uio.satnet.net
- EE Estonia**  
Please contact  
our Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Latvia  
  
or  
  
Soots Interface OÜ  
Pärnu mnt 142  
11317 Tallinn  
Telephone number +372 609 6933  
Fax number  
info@sootsinterface.ee  
www.sootsinterface.ee
- EG Egypt**  
Standard Electric (OMEGA)  
1, Abdelhamid Badawy Street  
Heliopolis  
Cairo  
Telephone number +202 21805111  
21805111  
Fax number +202 21805600  
stdelec@rite.com
- ES Spain**  
Weidmüller, S. A.  
Narcís Monturiol 11-13, Pol.  
Ind. Sudoeste  
8960 Sant Just  
Desvern - Barcelona  
Telephone number +34 934 803 386  
Fax number +34 933 718 055  
weidmuller@weidmuller.es  
www.weidmuller.es
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siivuliike  
Koy Plaza Vivace  
Äyritie 8C  
FI 1510 Vantaa  
Telephone number +358 20 7351300  
Fax number +358 800 114 667  
asiakaspalvelu@weidmuller.fi  
www.weidmuller.fi
- FR France**  
Weidmüller E. U. R. L.  
12, Chaussée Jules César  
BP 263 Osny  
95523 Cergy-Pontoise Cedex  
Telephone number +33 1 34 24 55 00  
Fax number +33 1 34 24 55 01  
mail@weidmuller.fr
- GB Great Britain**  
Weidmüller Ltd.  
Klippon House  
Centurion Court Office Park,  
Meridian East, Meridian  
Business Park  
Leicester  
LE19 1TP  
Telephone number +44 116 282 3470  
Fax number +44 116 289 3582  
marketing@weidmuller.co.uk  
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144 52 Athen  
Telephone number +30 210 2823233  
Fax number +30 210 2823233  
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- GT Guatemala**  
Prestelectro, Prestegard  
Electro, S.A.  
Avenida Petapa 44-22,  
Zona 12  
Guatemala City  
Telephone number +502 2442-3346  
Fax number +502 2476-8945  
ventas@prestelectro.com
- HK Hong Kong**  
Weidmüller (Hong Kong)  
Limited Co. Ltd.  
Unit 1617, Metropolis Tower  
No. 10 Metropolis Drive,  
Hungghom, Kowloon  
Telephone number +852 3154 8088  
Fax number +852 31548099  
Info-hk@weidmueller.com.hk
- HR Croatia**  
ElektroPARTNER d.o.o.  
Slavonska avenija 24/6  
HR-10000 Zagreb  
Telephone number +385 (1) 6184 793  
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elektropartner@zg.t-com.hr  
www.elektropartner.hr
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Weidmüller Kereskedelmi Kft.  
Budapest  
Gubacsi út 6.  
1097  
Telephone number +36 1 382 7700  
Fax number +36 1 382 7701  
info@weidmueller.hu  
www.weidmueller.hu
- ID Indonesia**  
PT. Nego Electrindo  
Ruko Mega Grosir Cempaka  
Mas Blok I No. 20 – 22  
Jakarta 10640  
Telephone number +62 21 42882255  
Fax number +62 21 42882266  
sales@negoelectrindo.co.id
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Great Britain
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A. U. Shay Ltd.  
23/25, Embarr Street  
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P.O. Box 1 00 49  
49222 Petach-Tikva  
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Fax number +972 3-923-4601  
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www.uriel-shay.com  
  
ATEKA Ltd.  
4, Ha Tavor lane Industrial  
area Segula  
49691 Petach-Tikva  
P.O. Box 4710  
Petach-Tikva  
Telephone number +972 73-200-1311  
Fax number +972 3-924 4245  
marketing@ateka.co.il  
www.ateka.co.il
- IN India**  
Representative Office  
Weidmüller Electronics India  
Pvt. Ltd.  
12th Lane North Avenue, Opp  
Joggers Park,  
Kalyani Nagar, Pune  
411 006  
Telephone number +91 20-41290090  
wmi@weidmueller.in  
www.weidmueller.com
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Samey Automation Center  
Lýngas 13  
210 Garoabaer  
Telephone number +354 510 5200  
Fax number +354 510 5201  
Samey@samey.is  
www.samey.is
- IT Italy**  
Weidmüller S. r.l.  
Via Albert Einstein 4  
20092 Cinisello  
Balsamo Milano  
Telephone number +39 02 660681  
Fax number +39 02 6124945  
weidmuller@weidmuller.it  
www.weidmuller.it
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Please contact  
W Interconnections Inc.  
United States
- JO Jordan**  
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PO Box 33 06 07  
Amman  
Telephone number +962 6 533 2020  
Fax number +962 6 533 5800  
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Tokyo  
140-0002  
Telephone number +81 3  
6711 5300  
Fax number +81 3 6711  
5333  
weidmullerjapan@weidmuller.  
co.jp  
www.weidmuller.co.jp
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Please contact  
our Representative Office  
Weidmüller Interface GmbH  
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Weidmüller Interface  
Azerbaijan.
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9th floor  
429, Teheran-ro, Gangnam-Gu  
Seoul 135-721  
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2-516-0003  
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info@weidmuller.co.kr  
www.weidmuller.co.kr
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Al Rai Industrial Area, Plot  
28-30, St. 31  
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4741373  
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Progress Engineering &  
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Al Nahr Street  
Beirut 11-1111  
Telephone number +961 1  
444 664  
Fax number +961 1 561 880  
progress@inco.com.lb
- LT Lithuania**  
Please contact  
our Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Latvia
- or  
ELEKTROS IRANGA  
Tinklu g. 29 a  
LT-5319 Panevezys  
Telephone number +370 (45)  
582 828  
Fax number  
info@eliranga.lt
- LU Luxembourg**  
Please contact  
Weidmüller Benelux B. V.  
Netherlands
- LV Latvia**  
SIA Abi4  
Daugavgrivas 31b  
Rīga, LV-1007  
Telephone number +371 674  
70999  
Fax number +371 674  
24562  
abi\_4@tvnet.lv
- Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Udens str. 12-118  
Rīga, LV-1007  
Telephone number +371  
29254766  
Fax number +371 674  
65637  
lgonis.rudaks@weidmueller.  
com  
www.weidmueller.com
- MA Morocco**  
Sofimed  
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20290 Casablanca  
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BERHORD A & D srl  
79/1, str. Milescu Spartaru  
MD-2075 Chisinau  
Moldova  
Telephone number +373 (22)  
815002  
Fax number +373 (22)  
815007  
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www.ad.berhord.com
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Please contact  
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5633 7363  
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6562  
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Please contact  
Phambili Interface  
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Franciscusweg 221  
1216 SE Hilversum  
P.O. Box 1505  
1200 BM Hilversum  
Telephone number +31 35  
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20 44  
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1396 Billingstad  
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6156  
Fax number (09) 489 1752  
csl@cuthbertstewart.co.nz
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4 Fred Thomas Drive  
Aon Building, Ground Floor,  
South Entry  
Takapuna  
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North Shore City 745  
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1751  
Fax number (04) 568 6056  
cslak@cuthbertstewart.co.nz
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5036 77  
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Calle 6 Mz. D Lte. 23, Urb.  
Ind. Grimanesa  
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Callao  
Telephone number +51 1  
572 2539  
Fax number +51 1 572 0152  
contacto@jwcia.com  
www.jwcia.com
- PH Philippines**  
Enclosure Systems Specialists  
Inc.  
2276 Don Chino Roces  
Avenue Extension  
Room 103/105 Narra Building  
1231 Makati City  
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Fax number +92 42  
37809950  
nadeem@acpak.com.pk  
www.acpak.com.pk
- PL Poland**  
Weidmüller Sp. z o. o.  
ul. Ogrodowa 58  
00-876 Warszawa  
Telephone number +48 22  
510 09 40  
Fax number +48 22 510  
09 41  
biuro@weidmuller.com.pl  
www.weidmuller.pl
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Please contact  
W Interconnections Inc.  
United States
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Weidmüller Sistemas de  
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Estrada Outeiro Polima, R.  
Augusto Dias da Silva, Lote  
B - Esc. 2  
São Domingos de Rana  
2785-515 Abóboda  
Telephone number +351 214  
459 191  
Fax number +351 214  
455 871  
weidmuller@weidmuller.pt  
www.weidmuller.pt
- Telephone number +974  
4651441  
Fax number +974 4654579  
dmtctech@qatar.net.qa  
http://www.dohamotorsgroup.  
com/td.html
- Petroleum Technology Co.  
W.L.L.  
PO Box 16069  
5th Floor Toyota tower  
Telephone number +974  
44419603  
Fax number +974 44419604  
petrotec@qatar.net.qa  
www.petrotec.com.qa
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CPI SA  
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PO Box 145
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4651441  
Fax number +974 4654579  
dmtctech@qatar.net.qa  
http://www.dohamotorsgroup.  
com/td.html
- Petroleum Technology Co.  
W.L.L.  
PO Box 16069  
5th Floor Toyota tower  
Telephone number +974  
44419603  
Fax number +974 44419604  
petrotec@qatar.net.qa  
www.petrotec.com.qa
- RO Romania**  
Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Ionescu Crum Street, No.  
1, 1st Tower, 1st Floor,  
Office 4  
500446 Brasov - Brasov  
Business Park  
Telephone number +40 (268)  
446 222  
Fax number +40 (262)  
205 410  
claudiu.totea@weidmueller.  
com  
www.weidmueller.com
- RS Serbia**  
Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Ustanička 189, III sprat  
lokal 7a  
11050 Beograd  
Telephone number +381  
112885274  
Fax number +381  
112885274  
zoran.rabrenovic@  
weidmueller.com
- TeLa Elektrik d.o.o.  
Ul. Dr. Drage Ljočić 6  
Beograd  
Telephone number +381 11  
2772 415  
Fax number +381 11 2772  
850  
office@tela.rs  
www.tela.rs
- RU Russia**  
Weidmüller Group  
7/10 Khlebozavodskiy  
Passage,  
Moskau  
115230  
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Axel Danielssons väg 271  
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info@weidmuller.se  
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Weidmüller Pte. Ltd.  
70 Bendemeer Road  
# 04-03 Luzerne Building  
Singapore 339940  
Telephone number +65 6841  
5311  
Fax number +65 6841 5377  
info@weidmuller.com.sg  
www.weidmuller.com.sg
- SI Slovenia**  
Elektrospoji d. o. o.  
Stegne 27  
SI- 1000 Ljubljana  
Osrednjeslovenska  
Telephone number +386 1  
511 3810  
Fax number +386 1 511  
1604  
info@elektrospoji.si  
www.elektrospoji.si
- SK Slovakia**  
ELEKTRIS s.r.o.  
Elektrárnská 1  
831 04 Bratislava  
Telephone number +421  
2/4920 0113  
Fax number +421 2/4920  
0119  
bratislava@elektris.sk

# Addresses worldwide

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11 Avenida Norte No. 240  
Edificio Salazar No. 2  
San Salvador  
Telephone number +503  
2271 1690  
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3851  
prestegard@navegante.com.sv

**SY Syria**  
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Weidmüller Middle East FZE  
United Arab Emirates

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Please contact  
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South Africa

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dindaeng Road  
Dindaeng, Bangkok  
10400  
Telephone number +66 2  
248 2896  
Fax number +662 105 6301  
ecsales@pisanu.co.th  
www.pisanu.co.th  
  
Representative Office  
Weidmüller Pte. Ltd.  
37/F, Sathorn Square Building  
98 North Sathorn Road  
Bangkok, Silom Bangrak  
10500  
Telephone number +66 2  
105 6300  
Fax number +66 2 642 9220  
info@weidmuller.com.sg

**TJ Tajikistan**  
Please contact  
our Representative Office  
Weidmüller Interface  
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Caddesi 9/1  
34810 Beykoz / Istanbul  
Telephone number +90 (216)  
537 10 70  
Fax number +90 (216) 537  
10 77  
info@weidmuller.com.tr  
www.weidmuller.com.tr

**TW Taiwan**  
Weidmüller (Hong Kong)  
Limited  
No. 3, Lane 89, ChungYang  
N. Rd  
24148 SanChuang City,  
Taipei  
Telephone number +886 921  
949 751  
roy.lin@weidmueller.com.hk

**TZ Tanzania**  
Please contact  
our Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
South Africa.

**UA Ukraine**  
LLC WM UKRAINE  
Levanevskogo str. 6  
Kiev  
3058  
Telephone number +38 044  
490 32 48  
Fax number  
info@wm-ua.com.ua  
wm-ua.com.ua/

Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
Z, office 303  
7-D, Zdolbunivska str.  
Kiev, 2081  
Telephone number  
(mobile) +38 050 440 25 24  
info.ua@weidmueller.com

**US United States**  
W Interconnections Inc.  
821 Southlake Boulevard  
Richmond Virginia 23236  
Telephone number +1 (804)  
794-2877  
Fax number +1 (804) 379-  
2593  
info@weidmuller.com  
www.weidmuller.com

**UY Uruguay**  
REWUO Uruguay S. A.  
AV. Bolivia 2001Esq  
Rocafuerte  
11300 Carrasco Montevideo  
Telephone number +598  
2604 8439  
Fax number +598 2604  
8439  
rewo@rewouruguay.com.uy

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Please contact  
our Representative Office  
Weidmüller Interface  
Azerbaijan.

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Fax number +58  
2 122399341  
klocmoeller@cantv.net  
www.somerinca.com

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ALUMI Industrial Equipment &  
Automation Company Limited  
E1, La Thanh Hotel  
218 Doi Can Street  
Lieu Giai Ward, Ba Dinh  
District  
Hanoi City  
Telephone number +84 4  
37628601  
Fax number +84 4  
62661391  
aumi@aumi.com.vn  
www.aumi.com.vn

Representative Office  
Weidmüller Pte. Ltd.  
Level 16 Saigon Tower  
Building  
29 Le Duan Street  
District 1  
Ho Chi Minh  
Telephone number +848  
3520 7717  
Fax number +848 3520  
7604  
info@weidmuller.com.sg

**ZA South Africa**  
Phambili Interface  
PO Box 193  
1609 Johannesburg, Edenvale  
5 Bundo Road, Sebenza  
1610 Johannesburg  
Telephone number +27 (11)  
4521930  
Fax number  
info@weidmuller.co.za  
www.weidmuller.co.za

Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
210 Amarand  
Avenue, Pegasus Building  
181 Pretoria, waterkloof Glen  
ext 2 -  
Telephone number +27 12  
003 2906  
Fax number +27 (11)  
4526455  
Jacques.Vosloo@weidmueller.  
com  
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