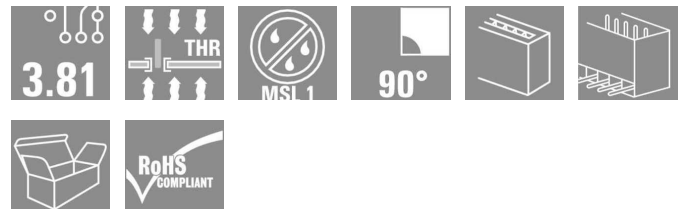
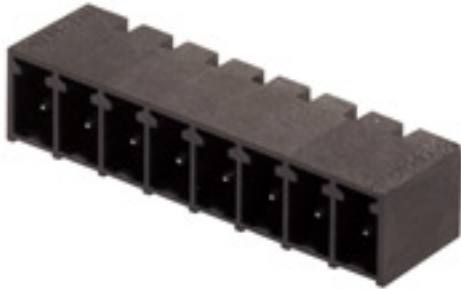


## OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/03/90G 1.5SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com



High-temperature-resistant pin header (SC-SMT 90G) in 3.81-mm pitch (0.15 inch)

- Plugging direction parallel to PCB (recumbent)
- Closed (G)
- Packed either in box (BX) or on anti-static roll (tape-on-reel, RL)
- Pin length of either 1.5 mm or 3.2 mm

Weidmüller's 3.81-mm-pitch (0.15 inch) plug-in connectors are compatible with the layouts of standard connectors and offer space for labelling and coding.

### General ordering data

Type	SC-SMT 3.81/03/90G 1.5SN BK BX
Order No.	<a href="#">1862970000</a>
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, No. of poles: 3, 90°, Solder pin length (l): 1.5 mm, tinned, Black, Box
GTIN (EAN)	4032248428076
Qty.	50 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Box

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Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

**Technical data**
**Dimensions and weights**

Net weight 0.98 g

**System specifications**

Product family	OMNIMATE Signal - series BC/SC 3.81	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	3.81 mm
Pitch in inches (P)	0.15 inch	Outgoing elbow	90°
No. of poles	3	Number of solder pins per pole	1
Solder pin length (l)	1.5 mm	Solder pin length tolerance	0 / -0,02 mm
Tolerance of solder pin position	± 0.1 mm	Solder pin dimensions	d = 1.0 mm, Octagonal
Solder pin dimensions = d tolerance	0 / -0,04 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tolerance (D)+	0,1 mm	Outside diameter of solder pad	2.1 mm
Template aperture diameter	1.9 mm	L1 in mm	7.62 mm
L1 in inches	0.3 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Volume resistance	6.00 mΩ
Can be coded	Yes	Plugging cycles	25
push-in force/pole	0 N	Packaging	Box

**Material data**

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
CTI	≥ 175	Insulation resistance	≥ 10 <sup>8</sup> Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-Leg	Contact surface	tinned
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Max. relative humidity during storage	80 %	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

**Rated data acc. to IEC**

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Ta = 20°C)	17.5 A
Rated current, max. no. of poles (Ta = 20°C)	13.9 A	Rated current, min. no. of poles (Ta = 40°C)	17 A
Rated current, max. no. of poles (Ta = 40°C)	12.4 A	Rated voltage for surge voltage class / pollution degree II/2	320 V
Rated voltage for surge voltage class / pollution degree III/2	160 V	Rated voltage for surge voltage class / pollution degree III/3	160 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	2.5 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	2.5 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	2.5 kV	Short-time withstand current resistance	3 x 1s with 76 A

## OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/03/90G 1.5SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

### Technical data

#### Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B)	300 V	Rated current (use group B)	8 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
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.		

#### 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
eClass 9.1	27-44-04-02		

#### Notes

Notes	<ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>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.</li> <li>P on drawing = pitch</li> </ul>
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

**Data sheet****OMNIMATE Signal - series BC/SC 3.81  
SC-SMT 3.81/03/90G 1.5SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

**Technical data****Downloads**

EDA Layout Library (Mentor Graphics  
Expedition, Mentor Graphics Pads,  
Altium Designer)

[Select your download](#)

SMT white paper

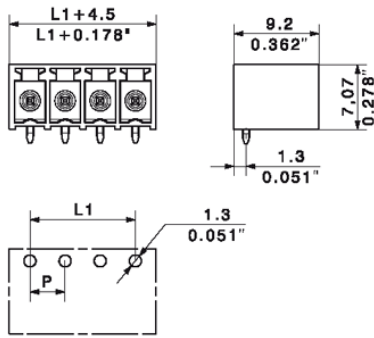
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Safety notice

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SC-SMT 3.81/03/90G 1.5SN BK BX**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 1429-0  
Fax: +49 5231 14292083  
www.weidmueller.com

**Drawings**

## Recommended wave soldering profiles

**Weidmüller Interface GmbH & Co. KG**  
 Klängenbergstraße 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.

## Recommended reflow soldering profile

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



### Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically  $\leq +3K/s$ . In parallel the solder paste is ‚activated‘. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at  $\geq -6K/s$  solder is cured. Board and components cool down while avoiding cold cracks.

# 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, Str 2b, Obj M59,  
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  
aliyar.hashimli@weidmueller
- 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 en 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  
8212 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.cpicchile.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 21805600  
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
- FI Finland**  
Weidmüller Suomi,  
Weidmüller Aktiebolagetin  
siivuliike  
Koy Plaza Vivace  
Äyritie 8C  
FI 15100 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  
www.weidmuller.co.uk
- GE Georgia**  
Please contact  
our Representative Office  
Weidmüller Interface  
Azerbaijan.
- GH Ghana**  
Please contact  
our Representative Office  
Weidmüller Interface GmbH  
& Co. KG  
South Africa.
- GR Greece**  
G.A. Solutions  
Ippokratous 11 Metamorfosi  
144 52 Athen  
Telephone number +30 210 2823233  
Fax number +30 210 2823233  
info@weidmuller.gr  
www.weidmuller.gr
- 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,  
Hunghom, 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  
Fax number +385 (1) 6184 795  
elektropartner@zg.t-com.hr  
www.elektropartner.hr
- HU Hungary**  
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
- IE Ireland**  
Please contact  
Weidmüller Ltd.  
Great Britain
- IL Israel**  
A. U. Shay Ltd.  
23/25, Embarr Street  
49222 Petach-Tikva  
P.O. Box 1 00 49  
49222 Petach-Tikva  
Telephone number +972 3-923-3601  
Fax number +972 3-923-4601  
shay@uriel-shay.com  
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.  
No. 9, Union Street, Off.  
Infantry Road  
BANGALORE  
560 001  
Telephone number +91-80-22860028  
wmi@weidmueller.in  
www.weidmueller.com
- IR Iran**  
Representative Office  
Tamin Ehtiajat Fanni Tehran  
(TAF Co.)  
Unit #. 5, No. 62 Iranshahr  
Ave.  
Tehran - 15816-53717, Iran  
Telephone number +9821 8831 7851  
info@taf-co.com  
http://www.taf-co.com
- IS Iceland**  
Samey Automation Center  
Lyngas 13  
210 Garoabaer  
Telephone number +354 510 5200  
Fax number +354 5 10 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
- JM Jamaica**  
Please contact  
W Interconnections Inc.  
United States





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Sales company   
Representation abroad   
without representation abroad 

- JO Jordan**  
Trans Jordan for Electro  
PO Box 33 06 07  
Amman  
Telephone number +962 6 533 2020  
Fax number +962 6 533 5800  
[transjordan@batelco.jo](mailto:transjordan@batelco.jo)
- JP Japan**  
Nihon Weidmüller Co. Ltd.  
Sphere Tower Tennoz 2-2-8  
Higashi-Shinagawa,  
Shinagawa-ku  
Tokyo  
140-0002  
Telephone number +81 3 6711 5300  
Fax number +81 3 6711 5333  
[weidmullerjapan@weidmuller.co.jp](mailto:weidmullerjapan@weidmuller.co.jp)  
[www.weidmuller.co.jp](http://www.weidmuller.co.jp)
- KE Kenya**  
Please contact our Representative Office Weidmüller Interface GmbH & Co. KG South Africa.
- KG Kyrgyzstan**  
Please contact our Representative Office Weidmüller Interface Azerbaijan.
- KR Korea**  
Weidmuller Korea Co. Ltd.  
9th floor  
429, Teheran-ro, Gangnam-Gu  
Seoul 135-721  
Telephone number +82 2-516-0003  
Fax number +82 2-516-0090  
[info@weidmuller.co.kr](mailto:info@weidmuller.co.kr)  
[www.weidmuller.co.kr](http://www.weidmuller.co.kr)
- KW Kuwait**  
Kana Controls General Trading & Contracting Co. W. L. L.  
Al Rai Industrial Area, Plot 28-30, St. 31  
13016 Safat  
B.P. 25593  
Telephone number +965 4741373  
Fax number +965 4741537  
[info@kanacontrols.com](mailto:info@kanacontrols.com)
- KZ Kazakhstan**  
Please contact Weidmüller Group Russia
- LB Lebanon**  
Progress Engineering & Trading Enterprises  
Al Nahr Street  
Beirut 11-1111  
Telephone number +961 1 444 664  
Fax number +961 1 561 880  
[progress@inco.com.lb](mailto: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](mailto:info@eliranga.lt)
- LU Luxembourg**  
Please contact Weidmüller Benelux B. V. Netherlands
- LV Latvia**  
SIA Abi4  
Daugavgrivas 31b  
Riga, LV-1007  
Telephone number +371 674 70999  
Fax number +371 676 24562  
[abi\\_4@tvnet.lv](mailto:abi_4@tvnet.lv)  
Representative Office Weidmüller Interface GmbH & Co. KG  
Udens str. 12-118  
Riga, LV-1007  
Telephone number +371 29254766  
Fax number +371 674 65637  
[Ilgonis.rudaks@weidmuller.com](mailto:Ilgonis.rudaks@weidmuller.com)  
[www.weidmuller.com](http://www.weidmuller.com)
- MA Morocco**  
Sofimed  
137, Bd Moulay Ismail Roches Noires  
20290 Casablanca  
Telephone number  
Fax number  
[contact@sofimedmaroc.com](mailto:contact@sofimedmaroc.com)
- MD Moldova**  
BERHORD A & D srl  
79/1, str. Milescu Spartaru  
MD-2075 Chisinau  
Moldova  
Telephone number +373 (22) 815002  
Fax number +373 (22) 815007  
[atiuleanu@berhord.com](mailto:atiuleanu@berhord.com)  
[www.ad.berhord.com](http://www.ad.berhord.com)
- ME Montenegro**  
Please contact our Representative Office Weidmüller Interface GmbH & Co. KG Serbia.
- MG Madagascar**  
Please contact Phambili Interface South Africa
- MK Macedonia**  
Please contact our Representative Office Weidmüller Interface GmbH & Co. KG Serbia  
or  
ELEKTRO - SMK doool  
UL. III Makedonska brigada  
b.b.  
1000 Skopje  
Telephone number +389 22460295  
Fax number  
[Elektro-smk@telelab.net.mk](mailto:Elektro-smk@telelab.net.mk)
- MN Mongolia**  
Please contact our Representative Office Weidmüller Interface Azerbaijan.
- MT Malta**  
E. S. S., Electrical Supplies & Services Ltd.  
San Gwakklin Road  
Mriehel  
Telephone number +356 21255777  
Fax number +356 21255999  
[robert.agius@ess.com.mt](mailto:robert.agius@ess.com.mt)
- MU Mauritius**  
Mubelo Electrical Ltd.  
Office 26, Gateway building,  
St Jean Road  
Quatre Bornes  
Mauritius  
Telephone number +230 4670989  
Fax number +230 4654051  
[richard.mubelo@orange.mu](mailto:richard.mubelo@orange.mu)
- MW Malawi**  
Please contact our Representative Office Weidmüller Interface GmbH & Co. KG South Africa.
- MX Mexico**  
W Interconnections S. A.  
DE C. V.  
Blvd. Hermanos Sardán 698,  
Col. San Rafael Oriente  
72029 Puebla  
Telephone number +52 (222) 268 6227  
Fax number +52 (222) 286 6242  
[clientes@weidmuller.com.mx](mailto: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  
Telephone number +60 3 5633 7363  
Fax number +60 3 5633 6562  
[paul@cpstech.com.my](mailto:paul@cpstech.com.my)  
[www.cpstech.com.my](http://www.cpstech.com.my)
- MZ Mozambique**  
Please contact Phambili Interface South Africa
- NA Namibia**  
Please contact Phambili Interface South Africa
- NG Nigeria**  
Please contact Weidmüller Interface GmbH & Co. KG South Africa
- NL Netherlands**  
Weidmüller Benelux B. V.  
Franciscusweg 221  
1216 SE Hilversum  
P.O. Box 1505  
1200 BM Hilversum  
Telephone number +31 35 623 20 44  
Fax number +31 35 623 20 44  
[info@weidmuller.nl](mailto:info@weidmuller.nl)  
[www.weidmuller.nl](http://www.weidmuller.nl)
- NO Norway**  
Sivilingeniør J.F. Knudtzen AS  
Billingstadsletta 97  
1396 Billingstad  
PO Box 160  
1378 Nesbru  
Telephone number +47 66 98 33 50  
Fax number +47 66 98 09 55  
[firmapost@jfkknudtzen.no](mailto:firmapost@jfkknudtzen.no)  
[www.jfkknudtzen.no](http://www.jfkknudtzen.no)
- NZ New Zealand**  
Cuthbert S. Steward Ltd.  
27 Te Puni Street  
Petone  
PO Box 38496  
Wellington Mail Centre 5054  
Telephone number (04) 568 6156  
Fax number (09) 489 1752  
[csl@cuthbertsteward.co.nz](mailto:csl@cuthbertsteward.co.nz)  
Cuthbert S. Steward Ltd  
4 Fred Thomas Drive  
Aon Building, Ground Floor,  
South Entry  
Takapuna  
PO Box 100 338  
North Shore City 745  
Telephone number (09) 489 1751  
Fax number (04) 568 6056  
[cslak@cuthbertsteward.co.nz](mailto:cslak@cuthbertsteward.co.nz)
- OM Oman**  
DAN INTERNATIONAL LLC.  
Ghala St. 111  
BP 2901  
Seeb  
Telephone number +968 5036 77  
Fax number +968 5037 55  
[yedu@danintl.com](mailto:yedu@danintl.com)
- PE Peru**  
IMPEXINCA S.A.C.  
Calle Ortiz de Zevallos No.  
105, Urb. San Antonio  
18  
Lima, Miraflores  
Telephone number +51 1 447 5608  
[info@impexinca.pe](mailto:info@impexinca.pe)  
[www.impexinca.pe](http://www.impexinca.pe)  
J & W CIA, S. A.  
Calle 6 Mz. D Lte. 23, Urb.  
Ind. Grimanesa  
01  
Callao  
Telephone number +51 1 572 2539  
Fax number +51 1 572 0152  
[contacto@jwcia.com](mailto:contacto@jwcia.com)  
[www.jwcia.com](http://www.jwcia.com)
- PH Philippines**  
Enclosure Systems Specialists Inc.  
2276 Don Chino Roces  
Avenue Extension  
Room 103/105 Narra Building  
1231 Makati City  
Telephone number +63 2 813 8580  
Fax number +63 2 813 8596  
[sales\\_encsys@pldtdsl.net](mailto:sales_encsys@pldtdsl.net)  
[www.enclosuresystemsph.com](http://www.enclosuresystemsph.com)
- PK Pakistan**  
Automation Controls (Pak)  
Apartment No. 33 C III,  
Chenab Block, Allama Iqbal  
Town  
Lahore  
Telephone number +92 42 37809948  
Fax number +92 42 37809950  
[nadeem@acpak.com.pk](mailto:nadeem@acpak.com.pk)  
[www.acpak.com.pk](http://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](mailto:biuro@weidmuller.com.pl)  
[www.weidmuller.pl](http://www.weidmuller.pl)
- PR Puerto Rico**  
Please contact W Interconnections Inc. United States
- PT Portugal**  
Weidmüller Sistemas de Interface S. A.  
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](mailto:weidmuller@weidmuller.pt)  
[www.weidmuller.pt](http://www.weidmuller.pt)
- PY Paraguay**  
Please contact CPI SA Argentina
- QA Qatar**  
Doha Motors  
PO Box 145  
Telephone number +974 4651441  
Fax number +974 4654579  
[dmtctech@qatar.net.qa](mailto: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](mailto:petrotec@qatar.net.qa)  
[www.petrotec.com.qa](http://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 (268) 446 224  
[claudiu.totea@weidmuller.com](mailto:claudiu.totea@weidmuller.com)  
[www.weidmuller.ro](http://www.weidmuller.ro)
- RS Serbia**  
Representative Office Weidmüller Interface GmbH & Co. KG  
Ustanicka 189, III sprat lokal 7a  
11050 Beograd  
Telephone number +381 112885274  
Fax number +381 112885274  
[zoran.rabrenovic@weidmuller.com](mailto:zoran.rabrenovic@weidmuller.com)  
Tela Elektrik d.o.o.  
UI, Dr Drage Ljocić 6  
Beograd  
Telephone number +381 11 2772 415  
Fax number +381 11 2772 850  
[office@tela.rs](mailto:office@tela.rs)  
[www.tela.rs](http://www.tela.rs)
- RU Russia**  
Weidmüller Group  
7/10 Khlebozavodskiy  
Passage,  
Moskau  
115230  
Telephone number +7 495 280 72 71  
Fax number +7 495 280 72 71  
[Info@weidmuller.ru](mailto:Info@weidmuller.ru)  
[www.weidmuller.ru](http://www.weidmuller.ru)
- SA Saudi Arabia**  
Al Abdulkarim Holding Co.  
P.O. Box 4  
Dammam 31411  
Telephone number +966 3 8337110  
Fax number +966 3 8829547  
E-mail [salehsk@akh.com.sa](mailto:salehsk@akh.com.sa)  
[www.weidmuller.ae](http://www.weidmuller.ae)  
Saudi Electric Supply Company (SESCO)  
P.O. Box 32 98  
Al Khobar 31952  
Telephone number +966 3 6829546 Ext. 3030  
Fax number  
E-mail [Safdar.Malik@sescogex.com](mailto:Safdar.Malik@sescogex.com)  
[www.sescogex.com](http://www.sescogex.com)
- SE Sweden**  
Weidmüller AB  
Axel Danielssons väg 271  
BOX 31025  
SE-200 49 Malmö  
Telephone number +46 77-143 00 44  
Fax number +46 40-37 48 60  
[info@weidmuller.se](mailto:info@weidmuller.se)  
[www.weidmuller.se](http://www.weidmuller.se)
- SG Singapore**  
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](mailto:info@weidmuller.com.sg)  
[www.weidmuller.com.sg](http://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](mailto:info@elektrospoji.si)  
[www.elektrospoji.si](http://www.elektrospoji.si)

# Addresses worldwide

Let's connect.

**SK Slovakia**  
ELEKTRIS s.r.o.  
Elektrárenská 1  
831 04 Bratislava  
Telephone number +421  
2/4920 0113  
Fax number +421 2/4920  
0119  
bratislava@elektris.sk

**SV El Salvador**  
Prestegard Electro  
11 Avenida Norte No. 240  
Edificio Salazar No. 2  
San Salvador  
Telephone number +503  
2271 1690  
Fax number +503 2221  
3851  
prestegard@navegante.com.sv

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

**SZ Swaziland**  
Please contact  
Phambili Interface  
South Africa

**TH Thailand**  
Pisanu Engineering Co. Ltd.  
Kwang Dingaeng, Khet  
Dingaeng  
800/2 Soi Trakulsuk, Asoke-  
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  
Azerbaijan.

**TM Turkmenistan**  
Please contact  
our Representative Office  
Weidmüller Interface  
Azerbaijan.

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

**TR Turkey**  
Weidmüller Elektronik Ticaret  
Ltd. Sirketi  
Kavacik Mah. Orhan Veli Kanik  
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**  
Please contact  
Weidmüller (Hong Kong)  
Limited Co. Ltd.  
Hong Kong

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

**UZ Republic of Uzbekistan**  
Please contact  
our Representative Office  
Weidmüller Interface  
Azerbaijan.

**VE Venezuela**  
Somerinca C. A.  
Corazon de Jesus - 3ra  
Transversal con calle el  
Carmen- Los Dos Caminos  
Caracas 1070-A  
Telephone number +58  
2122352748  
Fax number +58  
2122399341  
klocmoeller@cantv.net  
www.somerinca.com

**VN Vietnam**  
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  
www.weidmueller.com

**ZM Zambia**  
Please contact  
Phambili Interface  
South Africa

**ZW Zimbabwe**  
Please contact  
Phambili Interface  
South Africa