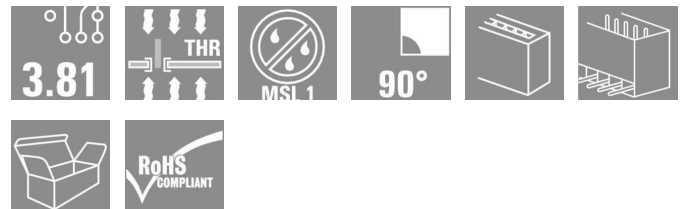
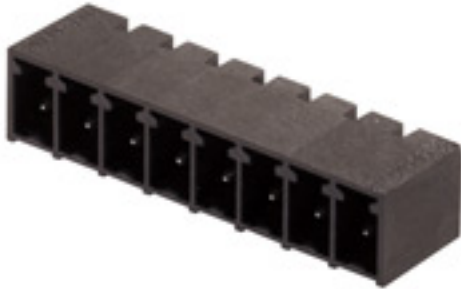


OMNIMATE Signal - series BC/SC 3.81

SC-SMT 3.81/05/90G 3.2SN 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 3.81/05/90G 3.2SN BK BX
Order No.	1862500000
Version	PCB plug-in connector, male header, closed side, THT/THR solder connection, 3.81 mm, No. of poles: 5, 90°, Solder pin length (l): 3.2 mm, tinned, Black, Box
GTIN (EAN)	4032248427635
Qty.	50 pc(s).
Product data	IEC: 320 V / 17.5 A UL: 300 V / 10 A
Packaging	Box

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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

Dimensions and weights

Net weight	1.42 g
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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	5	Number of solder pins per pole	1
Solder pin length (l)	3.2 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	15.24 mm
L1 in inches	0.6 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 ⁸ 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 3.81/05/90G 3.2SN 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	- Rated current related to rated cross-section & min. No. of poles. - 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. - P on drawing = pitch
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

OMNIMATE Signal - series BC/SC 3.81 SC-SMT 3.81/05/90G 3.2SN 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

[Download Whitepaper](#)

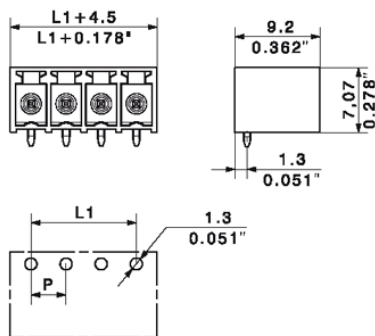
Safety notice

[Safety indication](#)

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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
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.

We reserve the right to make technical changes.

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 $\leq +3\text{K/s}$. 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 $\geq -6\text{K/s}$ 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 37
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
Maria 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
weidmueller@weidmueller.de
www.weidmueller.de

DK Denmark

Weidmüller Danmark
Vallensbækvej 18A
2605 Brøndby
Telephone number +45 27747800
kundeservice@weidmueller.dk
www.weidmueller.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 Mañosa
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
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
sivuliike
Koy Plaza Vivace
Äyrtie 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
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,
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
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 +354 510 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

JM Jamaica

Please contact
W Interconnections Inc.
United States



You can find all Weidmüller addresses and your local contact on the internet at: www.weidmueller.com/countries

Let's connect.

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	LV Latvia SIA Abi4 Daugavgrivas 31b Riga, LV-1007 Telephone number +371 674 70999 Fax number +371 676 24562 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@weidmueller.com www.weidmueller.com	MX Mexico W Interconnections S. A. DE C. V. Blvd. Hermanos Serdán 698, Col. San Rafael Oriente 72029 Puebla Telephone number +52 (222) 268 6227 Fax number +52 (222) 286 6242 clientes@weidmuller.com.mx	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 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 www.jwcia.com	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@weidmueller.com www.weidmueller.ro
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 www.weidmuller.co.jp	MA Morocco Sofimed 137, Bd Moulay Ismail Roches Noires 20290 Casablanca Telephone number Fax number contact@sofimedmaroc.com	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@cpctech.com.my www.cpctech.com.my	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@pltdsl.net www.enclosuresystemsph.com	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@weidmueller.com Tela Elektrik d.o.o. Ul. Dr. Džurica Ljocić 6 Beograd Telephone number +381 11 2772 415 Fax number +381 11 2772 850 office@tela.rs www.tela.rs
KE Kenya Please contact our Representative Office Weidmüller Interface GmbH & Co. KG South Africa.	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 www.ad.berhord.com	MZ Mozambique Please contact Phambili Interface South Africa	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 www.acpak.com.pk	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@weidmueller.ru www.weidmueller.ru
KG Kyrgyzstan Please contact our Representative Office Weidmüller Interface Azerbaijan.	ME Montenegro Please contact our Representative Office Weidmüller Interface GmbH & Co. KG Serbia.	NA Namibia Please contact Phambili Interface South Africa	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	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 www.weidmueller.ae Saudi Electric Supply Company (SESCO) P.O. Box 32 98 Al Khobar 31952 Telephone number +966 3 8829546 Ext. 3030 Fax number E-mail Safdar.Malik@sescogex.com www.sescogex.com
KR Korea Weidmüller 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 www.weidmuller.co.kr	MG Madagascar Please contact Phambili Interface South Africa	NG Nigeria Please contact Weidmüller Interface GmbH & Co. KG South Africa	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 www.weidmuller.pt	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 www.weidmuller.se
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	MK Macedonia Please contact our Representative Office Weidmüller Interface GmbH & Co. KG Serbia or ELEKTRO - SMK dooel UL. III Makedonska brigada b.b. 1000 Skopje Telephone number +389 22460295 Fax number Elektro-smk@telekabel.net.mk	NL Netherlands Weidmüller Benelux B. V. Franciscusweg 221 1216 SE Hilversum P.O. Box 1505 1200 BM Hilversum Telephone number +31 35 626 12 61 Fax number +31 35 623 20 44 info@weidmuller.nl www.weidmuller.nl	PR Puerto Rico Please contact W Interconnections Inc. United States	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 www.weidmuller.com.sg
KZ Kazakhstan Please contact Weidmüller Group Russia	MN Mongolia Please contact our Representative Office Weidmüller Interface Azerbaijan.	NO Norway Sivilingenier 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 www.jfkknudtzen.no	QA Qatar Doha Motors PO Box 145 Telephone number +974 4651441 Fax number +974 4654579 dmtech@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	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
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	MT Malta E. S. S., Electrical Supplies & Services Ltd. San Gwakklin Road Mrieħel Telephone number +356 21255777 Fax number +356 21255999 robert.agius@ess.com.mt	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 cs@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 cs@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	
LU Luxembourg Please contact Weidmüller Benelux B. V. Netherlands	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			
	MW Malawi Please contact our Representative Office Weidmüller Interface GmbH & Co. KG South Africa.			

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	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	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
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	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	ZM	Zambia Please contact Phambili Interface South Africa
SY	Syria Please contact Weidmüller Middle East FZE United Arab Emirates	UY	Uruguay REWO Uruguay S. A. AV. Bolivia 2001Esq Rocafuerte 11300 Carrasco Montevideo Telephone number +598 2604 8439 Fax number +598 2604 8439 rewo@rewoouruguay.com.uy	ZW	Zimbabwe Please contact Phambili Interface South Africa
SZ	Swaziland Please contact Phambili Interface South Africa	UZ	Republic of Uzbekistan Please contact our Representative Office Weidmüller Interface Azerbaijan.		
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	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		
TJ	Tajikistan Please contact our Representative Office Weidmüller Interface Azerbaijan.	VN	Vietnam AUMI 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		
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.				