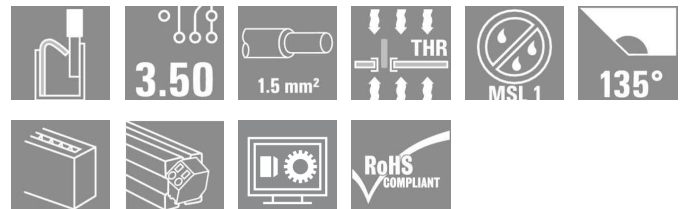


OMNIMATE Signal - series LSF

LSF-SMT 3.50/04/135 3.5SN BK TU

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



PCB terminal for fully automatic assembly in reflow soldering (SMT), with PUSH IN conductor connection system. Conductor inserted and slider operated in same direction (TOP). Packed in box or as tape on reel. Pin lengths optimised at 1.5 mm or 3.5 mm.

- 0.20 - 1.5 mm² (IEC) / 24 - 16 AWG (UL)
- 320 V (IEC) / 300 V (UL)
- 17.5 A (IEC) / 12 A (UL)

General ordering data

Type	LSF-SMT 3.50/04/135 3.5SN BK TU
Order No.	1885670000
Version	PCB terminal, 3.50 mm, No. of poles: 4, 135°, Solder pin length (l): 3.5 mm, Black, PUSH IN, Clamping range, rated connection, max.: 1.5 mm ² , Tube; Rs = 10 ⁹ - 10 ¹² Ω
GTIN (EAN)	4032248490585
Qty.	37 pc(s).
Product data	IEC: 320 V / 17.5 A / 0.2 - 1.5 mm ² UL: 300 V / 12 A / AWG 24 - AWG 16
Packaging	Tube; Rs = 10 ⁹ - 10 ¹² Ω

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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	3.59 g
------------	--------

System parameters

Product family	OMNIMATE Signal - series LSF	Wire connection method	PUSH IN
Mounting onto the PCB	THT/THR solder connection	Conductor outlet direction	135°
Pitch in mm (P)	3.5 mm	Pitch in inches (P)	0.138 inch
No. of poles	4	Fitted by customer	No
Solder pin length (l)	3.5 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.35 x 0.8 mm	Solder pin dimensions = d tolerance	0 / -0.1 mm
Solder eyelet hole diameter (D)	1.1 mm	Solder eyelet hole diameter tolerance (D)+	0, 1 mm
Number of solder pins per pole	2	Stripping length	8 mm
L1 in mm	10.5 mm	L1 in inches	0.413 inch
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Volume resistance	1.60 mΩ		

Material data

Insulating material	LCP GF	Colour	Black
Colour chart (similar)	RAL 9011	Insulating material group	IIla
CTI	≥ 175	Insulation resistance	≥ 10 ⁸ Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-Leg	Layer structure of solder connection	4-6 μm Sn matt
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.	-30 °C
Temperature range, installation, max.	120 °C		

Conductors suitable for connection

Clamping range, rated connection, min.	0.13 mm ²	Clamping range, rated connection, max.	1.5 mm ²
Wire connection cross section AWG, min.	AWG 24	Wire connection cross section AWG, max.	AWG 16
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	0.75 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²

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LSF-SMT 3.50/04/135 3.5SN BK TU

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 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)	16 A	Rated current, min. no. of poles (Ta = 40°C)	17.5 A
Rated current, max. no. of poles (Ta = 40°C)	14 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 80 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-1664286
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
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 16
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)	12 A	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 16
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002643
ETIM 5.0	EC002643	ETIM 6.0	EC002643
UNSPSC	30-21-18-11	eClass 5.1	27-26-11-01
eClass 6.2	27-26-11-01	eClass 7.1	27-44-04-01
eClass 8.1	27-44-04-01	eClass 9.0	27-44-04-01
eClass 9.1	27-44-04-01		

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LSF-SMT 3.50/04/135 3.5SN BK TU

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 1429-0
 Fax: +49 5231 14292083
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Technical data

Notes

Notes

- Additional push button colours on request
- Operating force of slider max. 40 N
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- 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.
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.

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)

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Engineering data

[EPLAN, WSCAD](#)

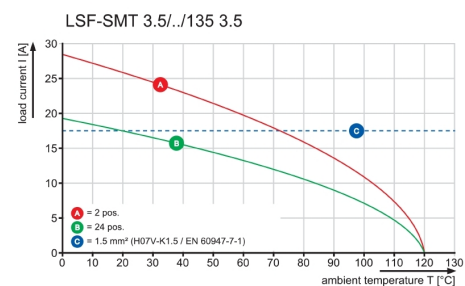
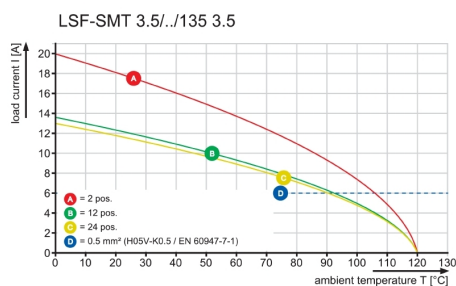
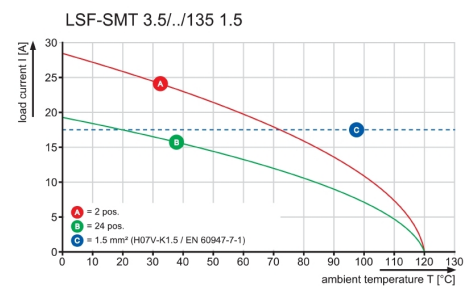
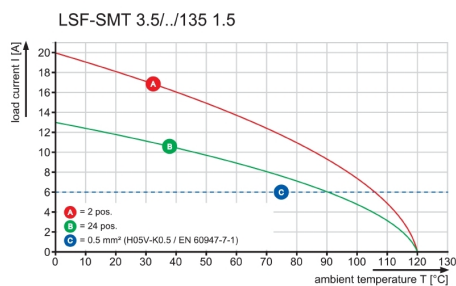
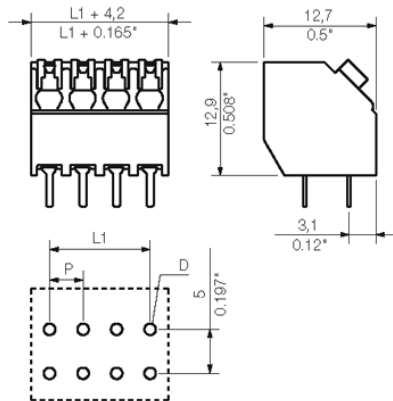
SMT white paper

[Download Whitepaper](#)

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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@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 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

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W Interconnections Inc.
United States



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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@cptech.com.my www.cptech.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. Drage 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
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 firma@post@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@cutbertsteward.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@cutbertsteward.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	
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	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			
LU Luxembourg Please contact Weidmüller Benelux B. V. Netherlands	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
- 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**
REWO Uruguay S. A.
AV. Bolivia 2001 Esq
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**
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
- 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