

## Lightning and surge protection VSPC 4SL 24VDC

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



Binary signal (SL – Symmetrical Load) protection includes the following signals:

- Switching signals with and without a common reference potential , e.g. 5 V...24 V...60 V
- Two-conductor systems usually involve a common reference potential of binary sensors, actuators and indicators such as limit switches, buttons, position sensors, photoelectric barriers, contactors, solenoid valves, indicator lamps, etc.
- Pluggable arrester, for interruption-free and impedance-neutral plug-in and pull-out
- Can be tested with V-TEST testing device
- Space-saving design for up to 4 binary signals
- Version with floating-earth PE connection used to avoid interference currents that result from differences in voltage potential
- For use in compliance with the IEC 62305 and IEC 61643-22 installation standards (D1, C1, C2 and C3)
- Integrated PE foot safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE
- Colour coding of the voltage levels for fast identification in the cabinet
- Safety function through coding elements for different voltage levels

### General ordering data

Type	VSPC 4SL 24VDC
Order No.	<a href="#">8924320000</a>
Version	Lightning and surge protection, Surge protection for instrumentation and control, 24 V, 300 mA, IEC 61643-21
GTIN (EAN)	4032248695966
Qty.	1 pc(s).

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VSPC 4SL 24VDC**

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

Width	17.8 mm	Height	90 mm
Depth	69 mm	Net weight	47 g

**Temperatures**

Humidity	5...96 %	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...80 °C		

**Probability of failure**

$\lambda_{ges}$	43	MTTF	2,665 Years
PFH in $1 \cdot 10^{-9}$ per hour	8.9	SFF	79.3 %
SIL in compliance with IEC 61508	2		

**PA53 IProtection level**

Protection level, $U_p$ GND - PE	450 V	Protection level, $U_p$ wire - PE	38 V
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**CSA protection data**

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. $U_i$	28 V
Internal capacity, max. $C_i$	4 nF	Internal inductance, max. $L_i$	0 $\mu$ H

**General data**

Colour	Arrester red	Optical function display	No
Protection degree	IP 20	Segment	Instrumentation and Control
UL 94 flammability rating	V-0		

**Insulation coordination acc. to EN 50178**

Pollution severity	2	Surge voltage category	III
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**Interference voltage**

Protection level $U_p$ (typ.)	< 60 V	Protection level on output side Wire-PE 1kV/ $\mu$ s, typically	40 V
Protection level on output side Wire-wire 1 kV/ $\mu$ s, typically	80 V	Protection level on output side Wire-wire 8/20 $\mu$ s, typically	80 V
Protection level, $U_p$ GND - PE	450 V		

**Protective elements**

Optical function display	No
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**Technical data**
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Discharge current $I_{max}$ (8/20 $\mu$ s) GND-PE	10 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	10 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire	10 kA	Discharge current $I_n$ (8/20 $\mu$ s) GND-PE	2.5 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-wire	2.5 kA
Fuse, max.	0.5 A	Humidity	5...96 %
Lightning test current $I_{imp}$ (10/350 $\mu$ s) [L-PE]	2.5 kA	Lightning test current $I_{imp}$ (10/350 $\mu$ s)	2.5 kA
Lightning test current $I_{imp}$ (10/350 $\mu$ s) [N-PE]	2.5 kA	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) GND-PE	2.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) Wire-PE	2.5 kA	Lightning test current, $I_{imp}$ (10/350 $\mu$ s) wire-wire	2.5 kA
Max. continuous voltage, $U_c$ (DC)	28 V	Overload - failure mode	Modus 2
Protection level $U_p$ (typ.)	< 60 V	Protection level on output side Wire-wire 8/20 $\mu$ s, typically	80 V
Pulse-reset capacity	30 ms	Rated current $I_N$	300 mA
Rated voltage (DC)	24 V	Rated voltage (DC), max.	28 V
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Signal transmission properties (-3 dB)	4 MHz
Standards	IEC 61643-21	Surge current-carrying capacity C1	< 1 kA 8/20 $\mu$ s
Surge current-carrying capacity C2	5 kA 8/20 $\mu$ s	Surge current-carrying capacity C3	100 A 10/1000 $\mu$ s
Surge current-carrying capacity D1	2.5 kA 10/350 $\mu$ s	Voltage type	DC
Volume resistance	4.7 $\Omega$		

**Further details of approvals**

GOST certificate GOST-Zertifikat

**Connection data**

Type of connection Pluggable in VSPC BASE

**Rated data UL**

Certificate No. (UL) E311081 UL certificate UL 497b Certificate

**Ratings IECEx/ATEX/cUL**

cUL certificate cUL Certificate

**Classifications**

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000381	ETIM 6.0	EC000381
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-02
eClass 8.1	27-13-08-02	eClass 9.0	27-13-08-02

**Product information**

Descriptive text technical data The associated VSPC base element should be ordered with this. The dimension information provided refers to the complete module.  
 Descriptive text accessories EMC Set: 1067470000 Marker: DEK 5

**Data sheet**

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Probability of failure**

SIL PAPER [SIL Paper](#)  
[3-D model](#)

**Downloads**

Package insert [Instruction sheet](#)  
 SIL PAPER [SIL Paper](#)  
 Declaration of Conformity [CE document](#)  
 EPLAN [8924320000.ema](#)  
 Selection matrix [Preference selection VSPC](#)  
[3-D model](#)

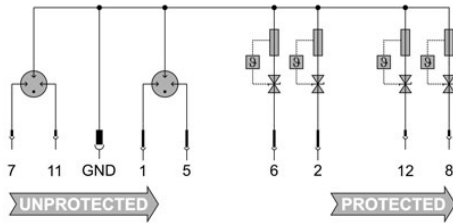
**Data sheet**

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**Drawings**

**Electric symbol**



Circuit diagram

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick- rising edge	0.5 - 2 kV with 1.2/50 µs	0.25 - 1 kA mit 8/20 µs	300	Surge voltage arrester
C2	Quick- rising edge	2 - 10 kV with 1.2/50 µs	1 - 5 kA mit 8/20 µs	10	Surge voltage arrester
C3	Quick- rising edge	≥ 1 kV with 1 kV/µs	10 - 100 A mit 10/10000 µs	300	Surge voltage arrester
D1	High power	≥ 1 kV	0.5 - 2.5 kA mit 10/350 µs	2	Arrester for lightning current and surge voltages

Discharge capacity



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### Mating connector (fully pluggable)

#### Direct earthing



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE.

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 4SL	<a href="#">8924700000</a>	Lightning and surge protection, Surge protection for instrumentation and control, IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006	4032248696345	1 pc(s).

#### Indirect earthing / floating ground via sparkover gap, also suitable for EX ia applications



Base element for the pluggable VSPC arresters. Integrated PE foot in the base of the impedance-neutral VSPC BASE and **floating earth PE connection** (FG) via integrated **sparkover gap**, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE. Suitable for unearthed signal circuits.

#### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 4SL FG	<a href="#">8924260000</a>	Lightning and surge protection, Surge protection for instrumentation and control, IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006	4032248695904	1 pc(s).

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 Fax: +49 5231 14-292083  
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**Accessories**
**V-TEST testing device: for the VSPC, PU I and PU II series**
**V-TEST**

- Testing device for checking the protective function of the pluggable overvoltage protection PU I, PU II and VSPC series
- Device for implementing the IEC 62305 standard (regarding periodic testing)
- Easy-to-use device with integrated battery set for on-site measurements
- LCD results display
- Menu in two languages
- Including a protective bag and power supply
- User friendly navigation in German and English

The V-TEST is a compact, portable test instrument for the plug-in surge protectors VARITECTOR (VSPC) and the surge protectors for the power supply line PU I and PU II. Using this instrument Weidmüller overvoltage protectors can be tested for their protective function in line with the testing schedules laid down in IEC 62305-3 (DIN VDE 0185 part 3). In a display with background illumination, the test result is indicated with "OK" or "Not OK".

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
V-TEST	<a href="#">8951860000</a>	Lightning and surge protection	4032248743100	1 pc(s).

**Direct earthing**


Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC BASE 4SL	<a href="#">8924700000</a>	Lightning and surge protection, Surge protection for instrumentation and control, IEC 61643-21, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN	4032248696345	1 pc(s).

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# Accessories

60079-26:2007, DIN EN  
 61241-11:2006

### Plus



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Connector markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 PLUS	<a href="#">1854490000</a>	Dekafix, Terminal marker,	4032248393596	1,000 pc(s).
MC NE WS		5 x 5 mm, Pitch in mm (P):		
		5.00 Weidmueller, White		

### Retaining clip



The interlock mechanism on the VSPC Series pluggable arrester delivers extra reliability and an improved permanent contact under strong vibrating conditions.

### General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VSPC	<a href="#">1317340000</a>	Lightning and surge	4050118121179	100 pc(s).
LOCKING CLIP		protection, Surge protection		
		for instrumentation and		
		control		




# 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  
Rashad Mahmudov  
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  
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.cpi Chile.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 +86 512-68417505  
customer.hotline@weidmueller.com.cn  
www.cnweidmuller.com
- 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  
Pänu 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  
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  
www.weidmuller.co.uk
- GE Georgia**  
Please contact  
our Representative Office  
Rashad Mahmudov  
Azerbaijan.
- GH Ghana**  
Please contact  
Weidmüller Interface GmbH  
& Co. KG  
South Africa
- GR Greece**  
G.A. Solutions  
Ippokratous 11 Metamorfoisi  
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@preselectro.com
- HK Hong Kong**  
Weidmüller (Hong Kong)  
Limited Co. Ltd.  
Unit 1617, Metropolis Tower  
No. 10 Metropolis Drive,  
Hung Hom, 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.  
12th Lane North Avenue, Opp  
Joggers Park,  
Kalyani Nagar, Pune  
411 006  
Telephone number +91 20-41290090  
wmi.pune@weidmueller.in  
www.weidmueller.com
- IS Iceland**  
Samey Automation Center  
Lýngas 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
- 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



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

Sales company 

Representation abroad 

without representation abroad 

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- 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
- KE Kenya**  
Please contact  
Phambili Interface  
South Africa
- KR Korea**  
Weidmuller Korea Co. Ltd.  
9th floor, Wonnang B/D  
Samseong 2-Dong, Gangnam-  
Gu  
Seoul 143-42  
Telephone number +82  
2-516-0003  
Fax number +82 2-516-0090  
info@weidmuller.co.kr  
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
- KZ Kazakhstan**  
Please contact  
OOO Weidmüller  
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
- 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 +371 676  
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  
137, Bd Moulay Ismail Roches  
Noires  
20290 Casablanca  
Telephone number  
Fax number  
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  
atuleanu@berhord.com  
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@tekelelab.net.mk
- MT Malta**  
E. S. S., Electrical Supplies &  
Services Ltd.  
San Gwakkin Road  
Mriehel  
Telephone number +356  
21255777  
Fax number +356 21255999  
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
- MW Malawi**  
Please contact  
Phambili Interface  
South Africa
- 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
- 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
- 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  
626 12 61  
Fax number +31 35 623  
20 44  
info@weidmuller.nl  
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@fknudtzen.no  
www.fknudtzen.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@cuthbertstewart.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@cuthbertstewart.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
- 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
- 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.enclosuresystemspsh.  
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  
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
- 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 - Esct. 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
- 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  
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  
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 Ljočić 6  
Beograd  
Telephone number +381 11  
2772 415  
Fax number +381 11 2772  
850  
office@tela.rs  
www.tela.rs
- RU Russia**  
OOO Weidmüller  
7/10 Khlebozavodskiy  
Passage,  
Moskau  
115230  
Telephone number +7 (495)  
771-69-40  
Fax number +7 (495) 771-  
69-41  
Info@weidmueller.ru  
www.weidmueller.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  
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  
www.sesco-gex.com  
www.sesco-gex.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  
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  
www.weidmuller.com.sg
- SI Slovenia**  
Elektrospoji d. o. o.  
Stegne 27  
SI- 1000 Ljubljana  
Osrednjleslovenska  
Telephone number +386 1  
511 3810  
Fax number +386 1 511  
1604  
info@elektrospoji.si  
www.elektrospoji.si
- 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

# Addresses worldwide

Let's connect.

**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

**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**  
Weidmuller (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  
Phambili Interface  
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  
Weidmueller 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@rewo Uruguay.com.uy

**UZ Republic of Uzbekistan**  
Please contact  
OOO Weidmüller  
Russia

**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  
6266 1391  
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