



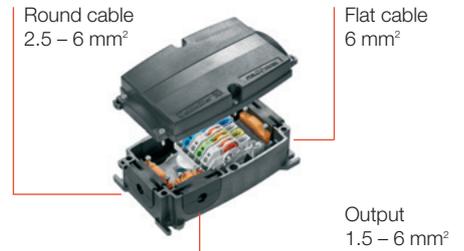
FIELDPOWER[®] – Decentralised Power Distribution with the PowerBox

Product Information

Decentralised Power Distribution with the PowerBox

FieldPower® is the flexible, economic solution for decentralised power distribution in mechanical and plant engineering, at airports, in intra-logistics, motorcar production and anywhere there is a need to distribute power over long distances. The innovative solution includes PowerBox distribution boxes, maintenance switches, plug-in connectors (optionally with fuse function), prefabricated cable sets and a full range of accessories.

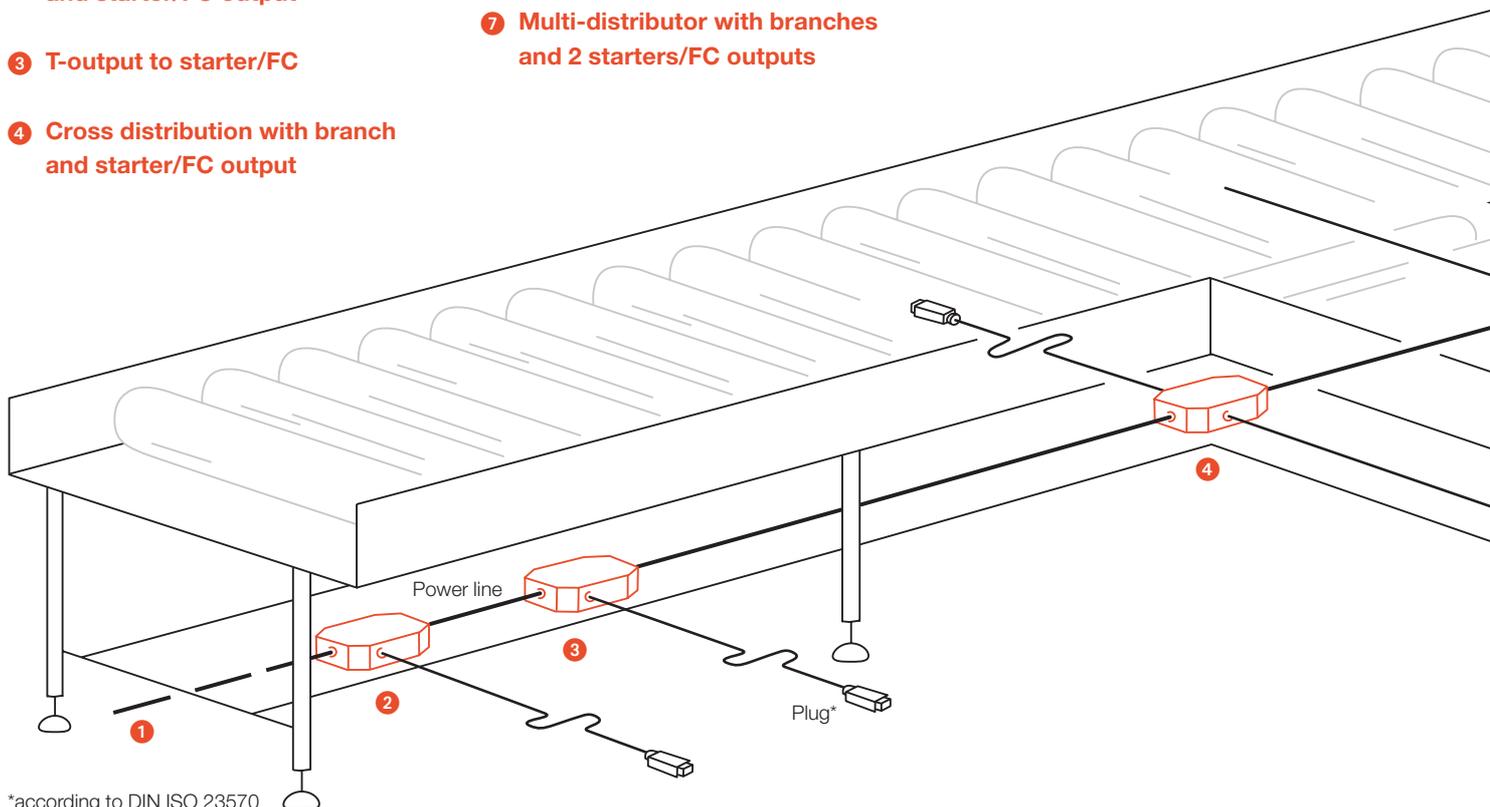
The power is distributed via an uncut round or flat cable. The pick-off is done at any suitable position close to the consuming device using the PowerBox with IDC technology. Branches and outgoing feeders to starters and frequency inverters are realised as “pluggable” or “fixed”. This reduces the length of cable runs and shortens installation time. FieldPower® reduces the overall costs of the project and increases flexibility for extending the plant or in the event of subsequent redesigns.



For all your layout needs: FieldPower®

Technical data	
Rated voltage	800 V/600 V UL
Rated current	41 A
Class of protection	IP 65
Temperature range	
- Assembly	from 10 °C to +40 °C
- Operation	from -15 °C to +55 °C
Material	Polycarbonate, silicone and halogen-free
Approvals	UL/CSA under preparation

- 1 Optional extension of power distribution
- 2 PowerBox as wiring end and starter/FC output
- 3 T-output to starter/FC
- 4 Cross distribution with branch and starter/FC output
- 5 Intermediate supply
- 6 Cross distribution with 2 starters/FC outputs
- 7 Multi-distributor with branches and 2 starters/FC outputs



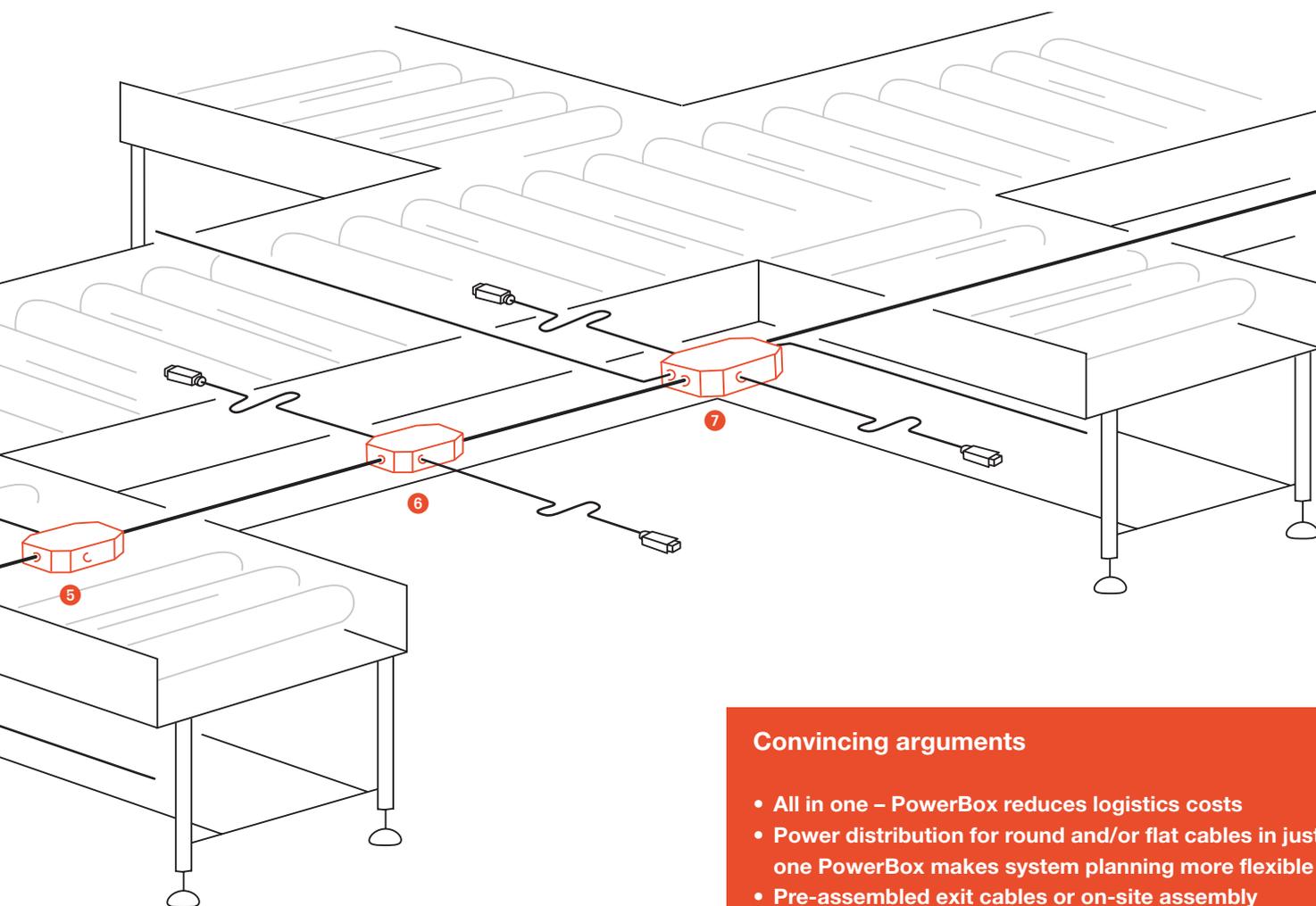
*according to DIN ISO 23570

The benefits are impressive

- All-in-one – the PowerBox for universal application as feeder, extension and as two-way T-output
- Prefabricated cables or fabrication on the spot
- Current-carrying capacity up to 41 A in branches or outgoing and feed circuits
- Construction of line, tree and network structures

Contents

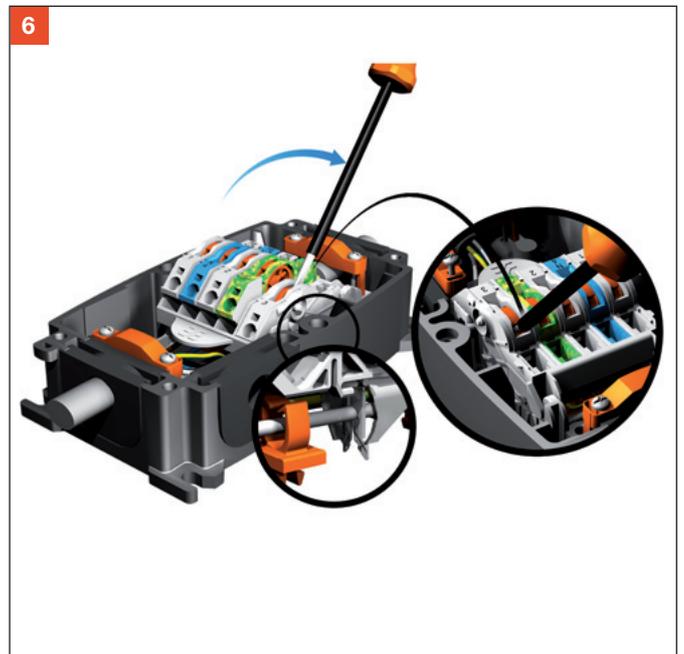
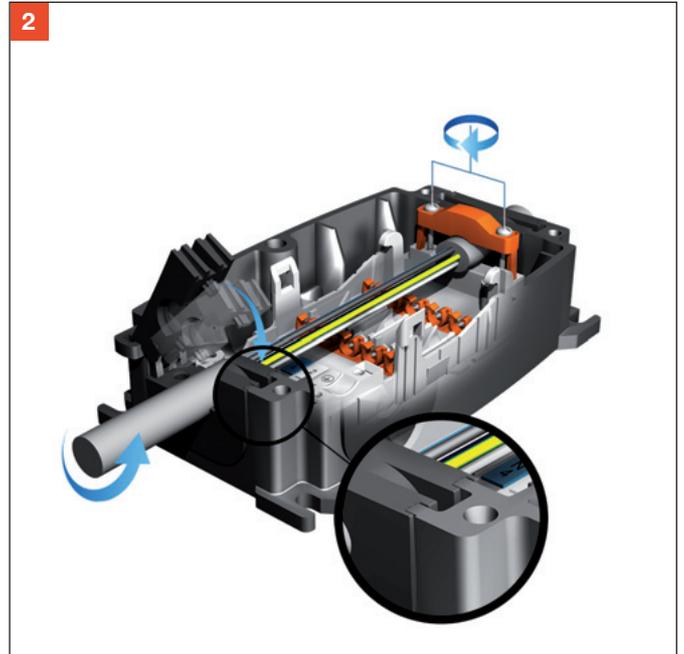
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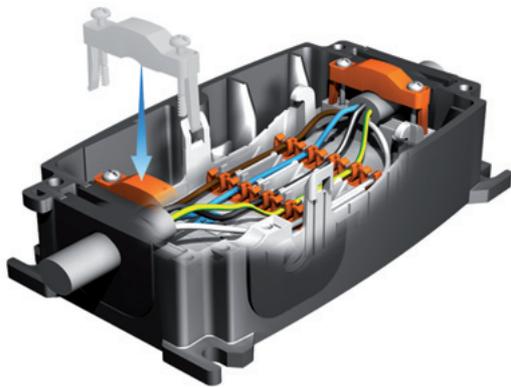
Convincing arguments

- All in one – PowerBox reduces logistics costs
- Power distribution for round and/or flat cables in just one PowerBox makes system planning more flexible
- Pre-assembled exit cables or on-site assembly facilitates flexible project management

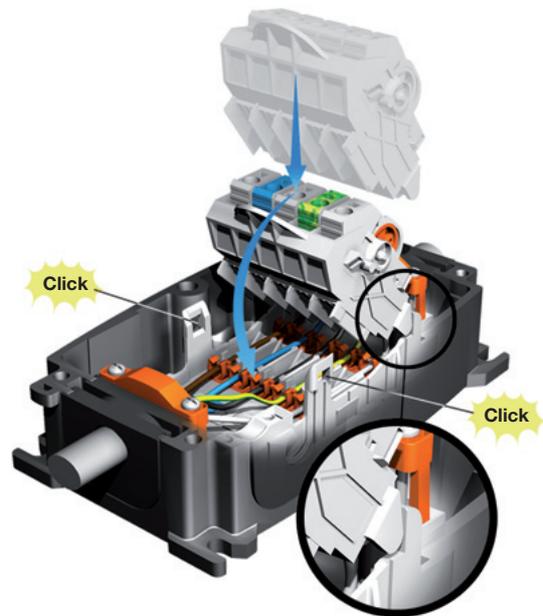
Decentralised power distribution made easy – the PowerBox principle



3



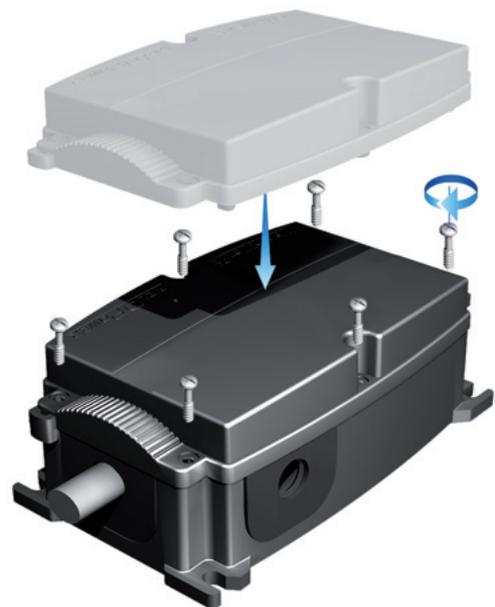
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7



8

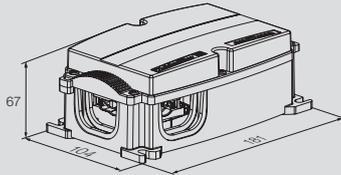


Power distribution

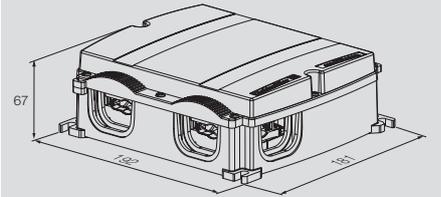
PowerBox

Contact element for uncut power cables (flat or round) with conductor cross-sections from 2.5 to 6 mm². T-distribution via Push In connection 1.5 to 6 mm² and/or plug-in connection from 0.5 to 4 mm².

PowerBox



PowerBox XL



Technical data

Rated data to IEC 60947-7-1

Rated cross-section
 Rated voltage/Rated current
 Rated impulse withstand voltage

General data

Insulating material/Colour
 UL 94 flammability class
 Halogen-free/Silicone-free
 Ingress protection class
 Temperature range, assembly, min.-max.
 Operating temperature, min.-max.

IDC clamping range, power cable

Solid, min.-max.
 Stranded, min.-max.
 Flexible, min.-max.
 Flexible, min.-max.
 Blade size

Clamping Push In connection - Distribution

Solid, min.-max.
 Stranded, min.-max.
 Flexible, min.-max.
 Flexible, AEH, 8 mm, DIN 46228/1, min.-max.
 Flexible, AEH, 8 mm, DIN 46228/4, min.-max.
 Flexible, AEH, 12 mm, DIN 46228/1, min.-max.
 Flexible, AEH, 12 mm, DIN 46228/4, min.-max.
 Finely stranded, min.-max.
 Stripping length/Blade size

UL rating data

Rated voltage/Rated current, user group C
 AWG conductor (field wiring), min./max.

CSA rating data

Rated voltage/Rated current, user group C
 AWG conductor (field wiring), min./max.

6 mm²
 800 V/41 A
 8 kV

Polycarbonate/black
 5VA
 Yes/Yes
 IP 65
 10 °C ... 40 °C
 -15 °C ... 55 °C

2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 0.6 x 3.5 mm

1.5 mm²-6 mm²
 14 mm/0.6 x 3.5 mm

600 V/
 14 /10

600 V/
 14 /10

UL / CSA in preparation

6 mm²
 800 V/41 A
 8 kV

Polycarbonate/black
 5VA
 Yes/Yes
 IP 65
 10 °C ... 40 °C
 -15 °C ... 55 °C

2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 0.6 x 3.5 mm

1.5 mm²-6 mm²
 14 mm/0.6 x 3.5 mm

600 V/
 14 /10

600 V/
 14 /10

UL / CSA in preparation

Note

Ordering data

Type	Qty.	Order No.
PowerBox	1	1957580000

Type	Qty.	Order No.
PowerBox XL	1	1957590000

Note

Accessories

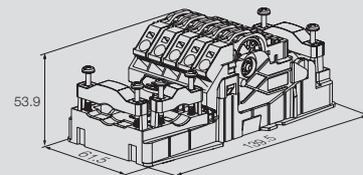
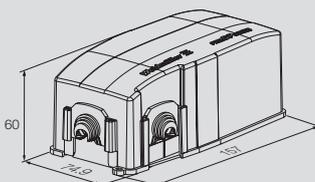
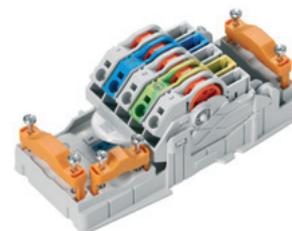
Note

PowerTerminal

Contact element for uncut power cables (flat or round) with conductor cross-sections from 2.5 to 6 mm². T-distribution via Push In connection 1.5 to 6 mm² and/or plug-in connection from 0.5 to 4 mm².

PowerTerminal

PT6



Technical data

Rated data to IEC 60947-7-1

Rated cross-section
 Rated voltage/Rated current
 Rated impulse withstand voltage

General data

Insulating material/Colour
 UL 94 flammability class
 Halogen-free/Silicone-free
 Ingress protection class
 Temperature range, assembly, min.-max.
 Operating temperature, min.-max.

IDC clamping range, power cable

Solid, min.-max.
 Stranded, min.-max.
 Flexible, min.-max.
 Flexible, min.-max.
 Blade size

Clamping Push In connection - Distribution

Solid, min.-max.
 Stranded, min.-max.
 Flexible, min.-max.
 Flexible, AEH, 8 mm, DIN 46228/1, min.-max.
 Flexible, AEH, 8 mm, DIN 46228/4, min.-max.
 Flexible, AEH, 12 mm, DIN 46228/1, min.-max.
 Flexible, AEH, 12 mm, DIN 46228/4, min.-max.
 Finely stranded, min.-max.
 Stripping length/Blade size

UL rating data

Rated voltage/Rated current, user group C
 AWG conductor (field wiring), min./max.

CSA rating data

Rated voltage/Rated current, user group C
 AWG conductor (field wiring), min./max.

6 mm²
 800 V/41 A
 8 kV

Polycarbonate/grey
 5VA
 Yes/Yes
 IP 30
 10 °C ... 40 °C
 -15 °C ... 55 °C

2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 0.6 x 3.5 mm

1.5 mm²-6 mm²
 14 mm/0.6 x 3.5 mm

600 V/
 14 /10

600 V/
 14 /10

UL / CSA in preparation

6 mm²
 800 V/41 A
 8 kV

PA/grey
 V0
 Yes/Yes
 IP 20
 10 °C ... 40 °C
 -15 °C ... 55 °C

2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 2.5 mm²-6 mm²
 0.6 x 3.5 mm

1.5 mm²-6 mm²
 14 mm/0.6 x 3.5 mm

600 V/
 14 /10

600 V/
 14 /10

UL / CSA in preparation

Note

Ordering data

Type	Qty.	Order No.
PowerTerminal	1	1963570000

Type	Qty.	Order No.
PT6	1	1957620000

Note

Accessories

Note

Power distribution

PowerBox F

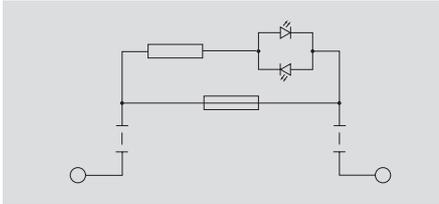
Contact unit (for uncut power cable) with fuse connector.

Max. power loss for G fuse terminals in imitation of IEC 60947-7-3:

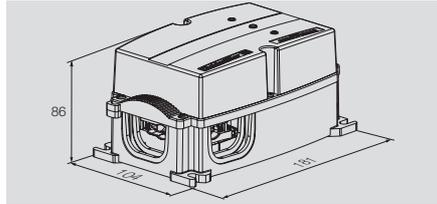
- Overload protection 1.6 W
- 4 W short-circuit protection exclusively (max. power loss at 23° T_J)

If choosing G cartridge fuse, do not exceed max. power loss.

In the event of a faulty fuse, the following power circuit is not de-energised.



PowerBox Fuse



Technical data

Rated data to IEC 60947-7-1

Rated cross-section
Rated voltage/Rated current
Rated impulse withstand voltage

6 mm²
690 V/12.5 A
8 kV

General data

Insulating material/Colour
UL 94 flammability class
Halogen-free/Silicone-free
Ingress protection class
Temperature range, assembly, min.-max.
Operating temperature, min.-max.

Polycarbonate/black
5VA
Yes/Yes
IP 65
10 °C ... 40 °C
-15 °C ... 55 °C

IDC clamping range, power cable

Solid, min.-max.
Stranded, min.-max.
Flexible, min.-max.
Flexible, min.-max.
Blade size

2.5 mm²-6 mm²
2.5 mm²-6 mm²
2.5 mm²-6 mm²
2.5 mm²-6 mm²
0.6 x 3.5 mm

Clamping Push In connection - Distribution

Solid, min.-max.
Stranded, min.-max.
Flexible, min.-max.
Flexible, AEH, 8 mm, DIN 46228/1, min.-max.
Flexible, AEH, 8 mm, DIN 46228/4, min.-max.
Flexible, AEH, 12 mm, DIN 46228/1, min.-max.
Flexible, AEH, 12 mm, DIN 46228/4, min.-max.
Finely stranded, min.-max.
Stripping length/Blade size

1.5 mm²-6 mm²
14 mm/0.6 x 3.5 mm

General information • connectors

Clamping range, min.-max.
Cartridge fuse
Failure indicator

0.5 mm²-4 mm²
6.3 x 32 mm (1/4 x 1 1/4")
Red LED

UL rating data

Rated voltage/Rated current, user group C
AWG conductor (field wiring), min./max.

/
14 /10

CSA rating data

Rated voltage/Rated current, user group C
AWG conductor (field wiring), min./max.

/
14 /10

Note

UL / CSA in preparation

Ordering data

Type	Qty.	Order No.
PowerBox Fuse	1	1961780000

Note

With fuse, voltage and current rating are determined by G cartridge fuse used.

Accessories

Note

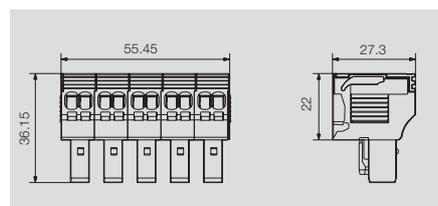
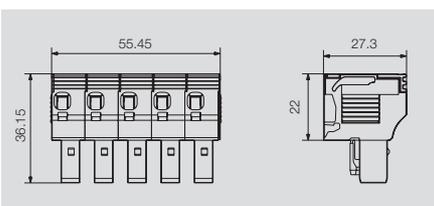
Fusible links not included with product.

Connectors

Connector with Push In connection technology for conductors 0.5 to 4 mm². Codable and interlocking, with print for error-free wiring.

PTS 4

PTDS 4



Technical data

Rated data to IEC 60947-7-1

Rated cross-section
Rated voltage/Rated current
Rated impulse withstand voltage

4 mm²
690 V/32 A
8 kV

4 mm²
690 V/32 A
8 kV

General information • connectors

Type of mounting
Insulating material/Colour of insulating material
UL 94 flammability rating of insulation material
Constant operating temp., min.-max.
Outgoing direction of conductor
Test point
Codable
Conductor connection system
No. of Poles
No. of connections / pole

plugged
PA GF/black
V0
-50 °C ... 120 °C
90°
2 mm
yes
Push In
5
1

plugged
PA GF/black
V0
-50 °C ... 120 °C
90°
2 mm
yes
Push In
5
2

Clamping Push In connection

Clamping range, min.-max.
Solid, min.-max.
Stranded, min.-max.
Flexible, min.-max.
Flexible, AEH, 8 mm, DIN 46228/1, min-max.
Flexible, AEH, 8 mm, DIN 46228/4, min-max.
Flexible, AEH, 12 mm, DIN 46228/1, min-max.
Flexible, AEH, 12 mm, DIN 46228/4, min-max.
Flexible, min.-max.
Stripping length/Blade size

0.5 mm²-4 mm²
12mm /3.0 x 0.5 mm

0.5 mm²-4 mm²
12mm /3.0 x 0.5 mm

UL rating data

Rated voltage/Rated current, user group C
AWG conductor (field wiring), min./max.

600 V/
22 /12

600 V/
22 /12

CSA rating data

Rated voltage/Rated current, user group C
AWG conductor (field wiring), min./max.

600 V/
22 /12

600 V/
22 /12

Note

UL / CSA in preparation

UL / CSA in preparation

Ordering data

Type	Qty.	Order No.
PTS 4	10	1952120000

Type	Qty.	Order No.
PTDS 4	10	1952130000

Note

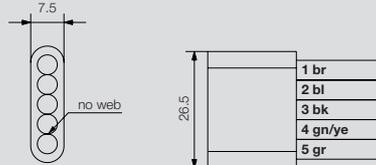
Accessories

Note

Cables

Flat cable

K 5G6 FL PVC



Technical data

Technical data

Rated voltage U0/U	450 V/750 V
Test voltage	2.5 kV

General data

Cable type	flat
Number of conductors	5
Cable identification / arrangement	L1:N;L2;PE;L3
PE conductor	Yes
Application	Flexible/fixed installation
Temperature range, flexible, min.-max.	-5 °C ... 70 °C
Temperature range, fixed, min.-max.	-40 °C ... 80 °C
Bending radius, min., flexible	10 x thickness of cable
Bending radius, min., fixed	10 x thickness of cable
Resistance to spread of flame	acc. IEC 60332-1
Halogen-free	Yes
O.D. of insulation, max.	
External dimension	7.5 mm x 26.5 mm
Sheathing colour	black
Sheath material	PVC
Conductor insulation	PVC
Conductor material	Copper
Cross-section	6

Note

Ordering data

Type	Qty.	Order No.
K 5G6 FL PVC	1	4328500000

Note

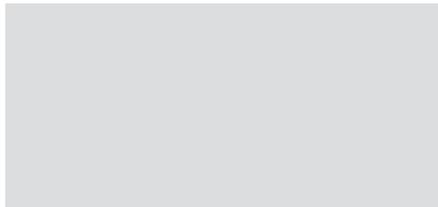
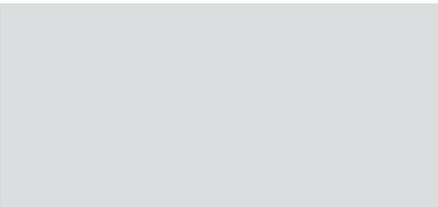
Accessories

Note

Prefabricated outgoing cables

For quick and convenient connection of consuming devices, FieldPower® offers customer-specific prefabricated connection cables. Conductor cross-sections from 1.5 mm² to 6 mm² as well as different plug-in connectors, heavy-duty connectors or wire-end ferrules are possible for this. A customer-specific article number is generated on request. The appropriate housing seal for the PowerBox is supplied along with the cable in each case.

FieldPower® Cables



Technical data

Technical data

Rated voltage U0/U
Test voltage

300 V / 500 V
3 kV

General data

Cable type
Number of conductors
Length
Cable identification / arrangement
PE conductor
Application
Temperature range, flexible, min. -max.
Temperature range, fixed, min. -max.
Bending radius, min., flexible
Bending radius, min., fixed
Halogen-free
Sheathing colour
Sheath material
Conductor insulation
Conductor material
Cross-section

round
5
optionally
consecutive number imprint
Yes
Flexible / fixed installation
-5 °C ... +70 °C
-40° C ... +70 °C
approx. 12.5 x cable diameter
approx. 4 x cable diameter
Yes
grey
Polymer sheath
Polymer wire insulation
Copper
1.5 mm² ... 6 mm²

Prefabrication of cable end 1 optionally with

Plug-in connector PTS 4
Plug-in connector PTDS 4
Wire end ferrules
unfabricated

Prefabrication of cable end 2 optionally with

HQ 5
unfabricated

Seal

supplied

Note

Ordering data

Type	Qty. = 1	Order No.
		on request

Note

Accessories

Note

Seal supplied

Plug-in connector PTS 4



Plug-in connector PTDS 4



Heavy-duty connector – HDC HQ5 (female)



Housing seals



Tools

Sheathing stripper

- Sheathing stripper for PVC cables

AM 16



- Sheathing stripper for round PVC cables
- Insulation can be stripped from any point along the cable
- Especially suitable for stripping cables in the cable duct, too.
- Hinged knife for circumferential and longitudinal cuts
- Handle tips with integrated cutter for opening slit insulation

AMF 6/10



- Sheathing stripper for PVC-insulated ribbon cables, 6 mm² and 10 mm²
- Insulation can be stripped from any point along the cable
- Cutting through of the insulation both on the face and the edges
- Opening of slit insulation by means of integrated cutter

Technical data

Max. stripping performance		AM 16	AMF 6/10
Cable model		PVC round cable	PVC ribbon cable
Conductor cross-section	mm ²		6 ... 10
Conductor diameter	mm	6 ... 17.3	
Max. stripping length	mm		
Adjustable depth of cut	mm	0.8 - 2.5 mm	0 - 4.0 mm
Cutting performance			
Max. cutting performance	mm ²		
Tool data			
Length	mm	53	110
Weight	g	60	115
Information			

Ordering data

Version	Type	Qty.	Order No.	Type	Qty.	Order No.
	AM 16	1	9204190000	AMF 6/10	1	9204180000
Information						

Accessories

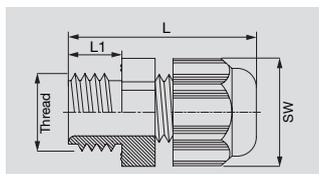
	Type	Qty.	Order No.	Type	Qty.	Order No.
	Spare blade	1	9204260000	Spare blade	1	9204250000
Information						
	Sheathing stripper			Sheathing stripper		

Cable glands

Glands - plastic - IP67



Inexpensive alternative for industrial applications - without approvals



Technical data

Material / colour	Polyamide 6 / RAL 7035
Sealing ring / Sealing insert	- / TPE
Temperature range	-20 °C ... 80 °C
Class of protection	IP 67

Note	Version with moulded sealing lip Length L varies depending on the cable diameter used
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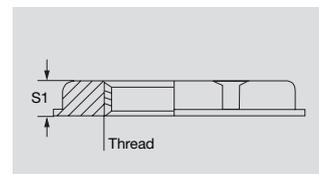
Ordering data

Type metric	Thread-size	KB	L/L1	SW	Qty.	Order No.
VG M20-K67	M 20 x 1.5	6 - 12	29.2 / 10	24	50	1909690000
VG M20-K67	M 20 x 1.5	10 - 14	32.8 / 10	27	50	1909700000
VG M25-K67	M 25 x 1.5	13 - 18	37.9 / 10	33	25	1909710000

Locknuts - plastic



For securing plastic cable glands and blanking plugs



Technical data

Material / colour	Polyamide 6 / RAL 7035
Temperature range	-30 °C ... 100 °C

Note

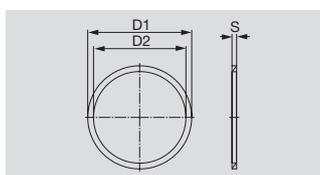
Ordering data

Type metric	Thread-size	S1	SW	Qty.	Order No.
SKMU M20 - K GR	M 20 x 1.5	6	26	100	1772460000

Sealing rings - 9005



For increasing the class of protection for cable glands and blanking plugs.



Technical data

Material / colour	Neoprene / RAL 9005
Temperature range	-40 °C ... 100 °C
Standard	DIN 46320 (for PG thread)

Note

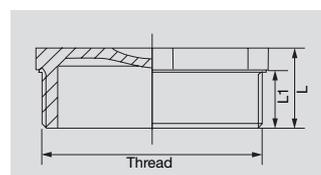
Ordering data

Type	Thread-size	D1	D2	S	Qty.	Order No.
GWDR M20-NP	M 20	24	20	1.2	50	1736240000

Blanking plugs - plastic - EEx e



For sealing surplus threaded holes to maintain the IP class of protection.



Technical data

Material	Polyamide
Sealing ring	-
Temperature range	-40 °C ... 110 °C
Class of protection / with GWDR	IP 66 / IP 68
Approval	EEx e II; Ⓢ II 2 GD
Test certificate	LCIE 98ATEX0001 U

Note

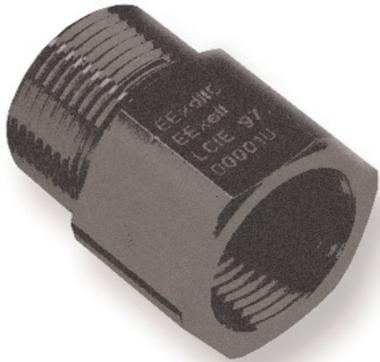
Optional sealing ring

Ordering data

Type	Thread-size	L	L1	SW	Qty.	Order No.
VP M20-EXE SW	M 20 x 1.5	19	15	23	50	1737080000

Adapter

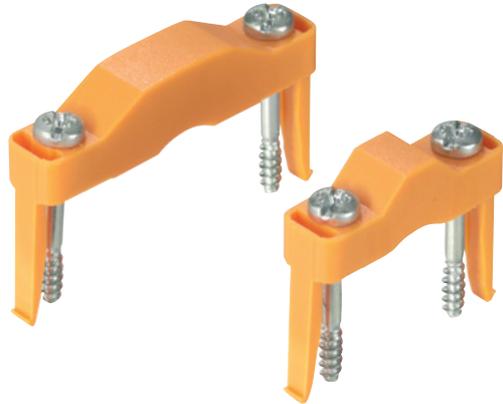
Adapter M20 – M25



Type	Qty.	Order No.
ADAP M20-M25	10	1967060000

Strain relief

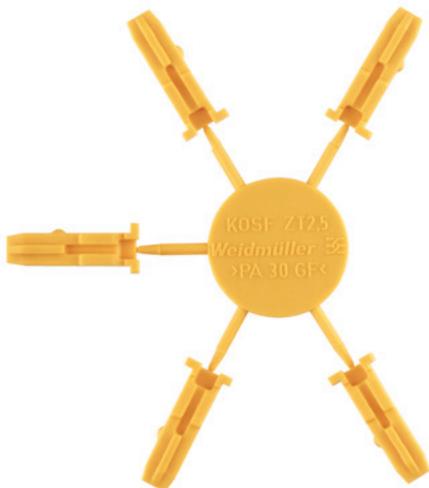
for cable diameters 15 – 17 mm



Type	Qty.	Order No.
Set		1967170000

Coding element

for plug-in connectors



Type	Qty.	Order No.
KOSF ZT2.5	50	1816150000

Locking element

for plug-in connectors



Type	Qty.	Order No.
ZVR ZP2.5	25	1816130000

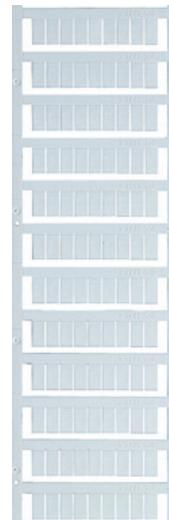
Markers

Adhesive labels 19 mm



Type	Qty.	Order No.
LM MT300 19X140 WS	10	1967640000

Markers



Type	Qty.	Order No.
WS 12/6 (white)	600	1609900000
WS 12/6 (blue)	600	1773551693
WS 12/6 (green)	600	1773551688

Seal IP30

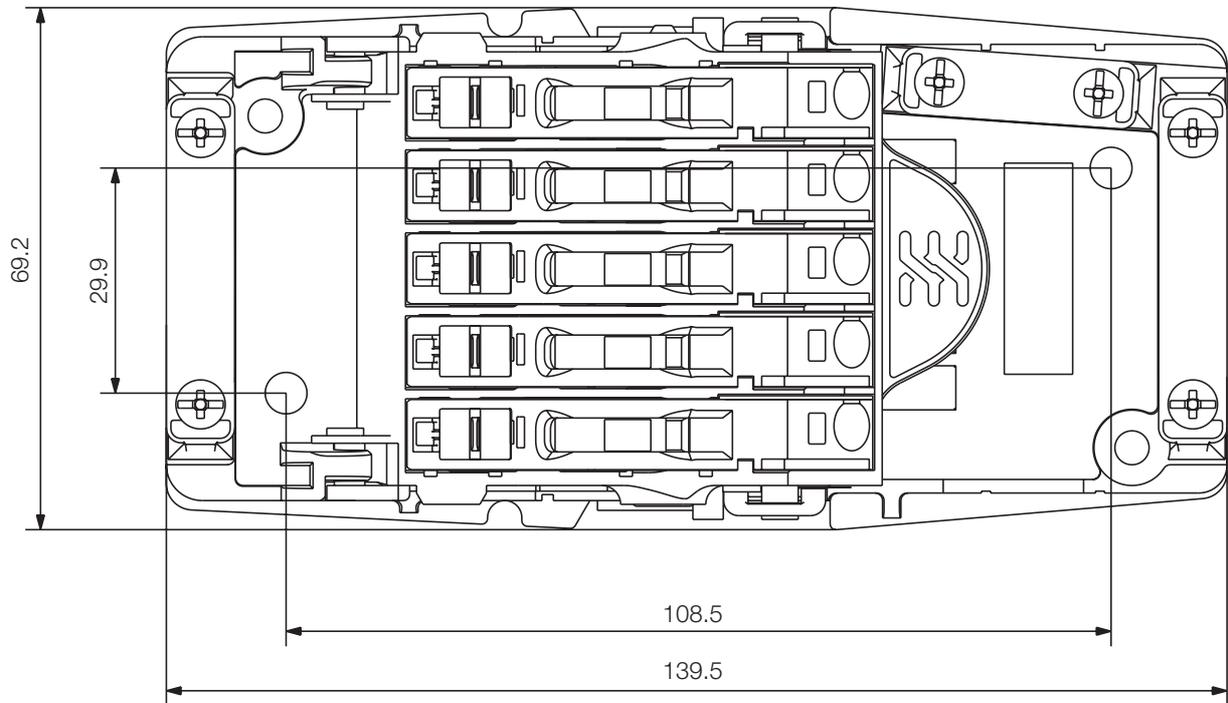
for IP30 cover PowerTerminal



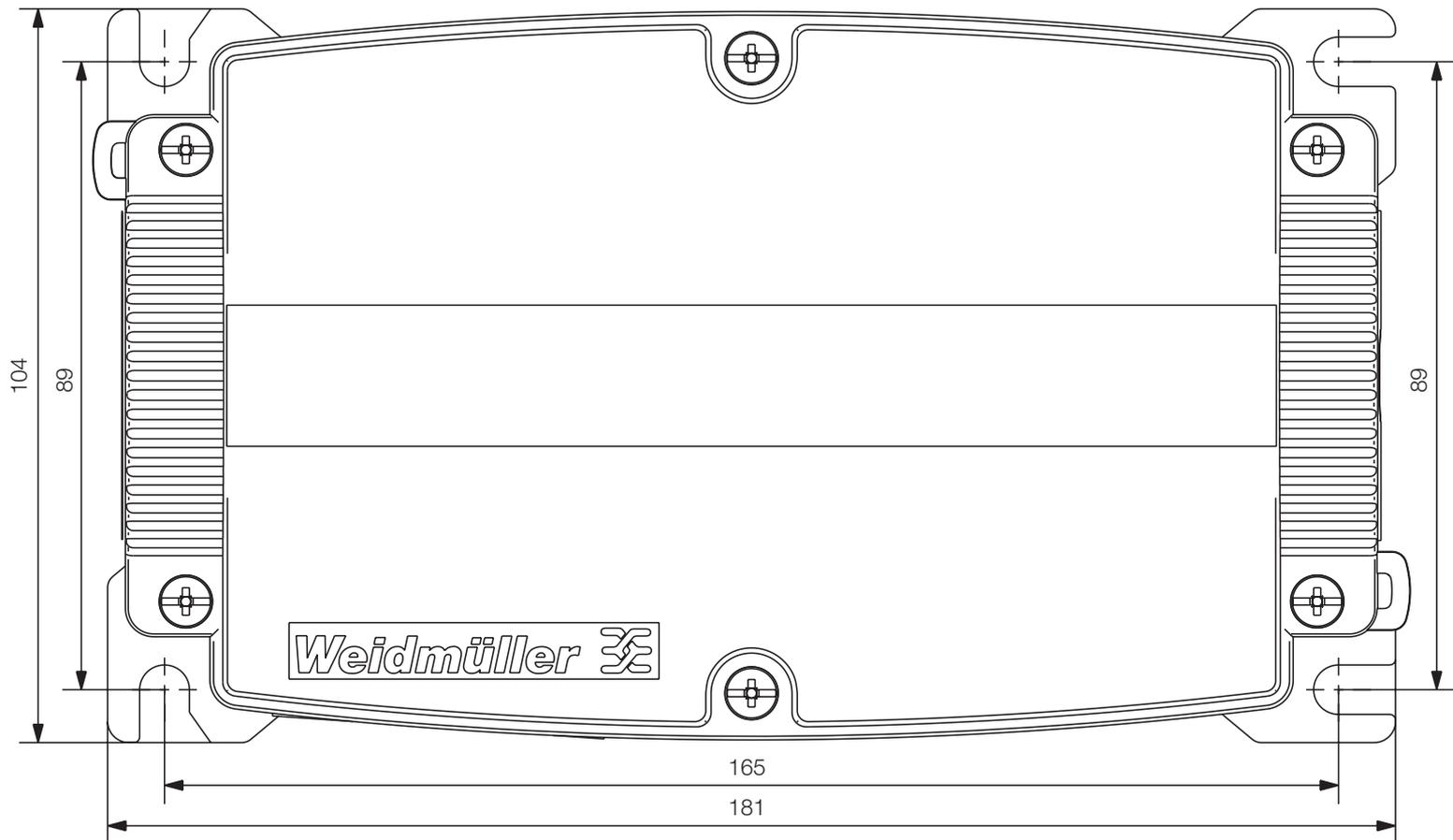
Type	Qty.	Order No.
DGSB IP30 D0 PT6	10	1967600000

Drilling templates

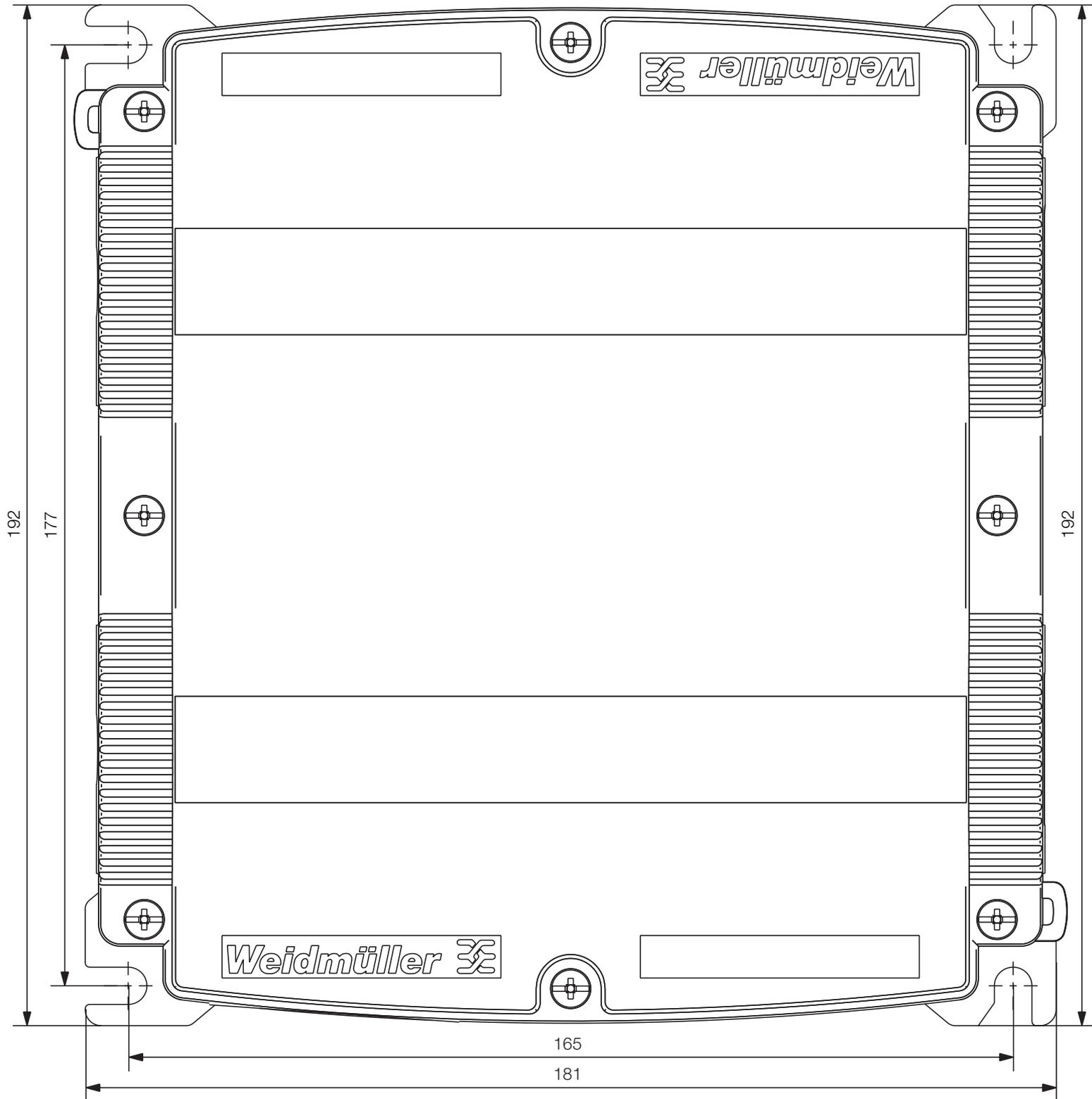
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Worldwide activities

- AE UAE**
United Arab Emirates
Weidmüller Middle-East
P.O. Box 62448
Dubai
Phone +971 4 3522215, 3523043
Fax +971 4 3599950
info@weidmueller.ae
- AR Argentina**
CPI SA
Bauness 2660
1431 Buenos Aires
Phone +54 11 45238008
Fax +54 11 45220546
compras@cpi.com.ar
- AT Austria**
Weidmüller Ges.m.b.H.
Industriezentrum Nö Süd
Straße 2, Objekt M2
2355 Wiener Neudorf
Phone +43 2236 6708-0
Fax +43 2236 6708-199
office.at@weidmueller.com
- AU Australia**
Weidmüller Pty. Ltd.
43 Huntingwood Drive
Huntingwood,
NSW, 2148
P.O.Box 6944
Blacktown
NSW, 2148
Phone +61 2 9671-9999
Fax +61 2 9671-9911
info@weidmuller.com.au
www.weidmuller.com.au
- AZ Azerbaijan**
West Industries Ltd.
Caspian Plaza, 5-th Floor
44 J. Jabbarly Str., Baku, Azerbaijan
Phone +99412 499 15 15
Fax +99412 499 14 93
sales@west-i.com
- BA Bosnia-Herzegovina**
BH ES Elektrosistem d.o.o.
ul. J. Veselinovica 18
78000 Banja Luka
Bosna
Phone +387 51 317500
Fax +387 51 317500
elsist@inecco.net
www.elektrosistem.co.yu
- BE Belgium**
Weidmüller Benelux B.V.
Mechelsesteenweg 519 bus 6 en 7
1930 Nossegem
Phone +32 16 395990
Fax +32 16 401051
info@weidmueller.be
- BG Bulgaria**
Weid Bul eOOD
ul. Nezabavka 33 A,
bl. 315/3/10
1113 Sofia
Phone +359 2 9632560
Fax +359 2 9631098
weidbul@nat.bg
- BH Bahrain**
Khayber Trading Company
P.O. Box 1976 Manama,
Bahrain
Phone +973 17720747
Fax +973 17720331
khayber@batelco.com.bh
- BR Brazil**
Conexel Conexoes Elétricas Ltda.
Rua Garcia Lorca, 176- V. Paulicéia,
09695-900, Sao Bernardo do
Campo - SP, Brasil
Phone +55 11 43669600
Fax +55 11 43621677
vendas@conexel.com.br
www.conexel.com.br
- BY Belarus**
TECHNIKON Ltd.
Oktyabrskaya Str. 16/5
Apt. 704
220030 Minsk
Belarus
Phone +375 17 2104626
Fax +375 17 2275830
technikon@belsonet.net
- CA Canada**
W Interconnections Canada Inc.
10 Spy Court, Markham,
Ontario L3 R5 H6
Phone +1 905 475-1507
Fax +1 905 475-5855
info1@weidmuller.ca
www.weidmuller.ca
- CG Republic of Montenegro**
Please contact
ES-YU Elektrosistem,
Republic of Serbia
- CH Switzerland**
Weidmüller Schweiz AG
Rundbuckstrasse 2
8212 Neuhausen am Rheinfall
Phone +41 52 6740707
Fax +41 52 6740708
info@weidmueller.ch
www.weidmueller.ch
- CL Chile**
Felipe Bahamondes S.A./ATS AGRO
Servicios Agroindustriales
Maria Luisa Santander 0475
Providencia
Casilla 3425
Santiago
Phone +56 2 341-1271
Fax +56 2 341-1275
felipe@atsintech.com
- CN China**
Weidmüller Interface International
Trading (Shanghai) Co., Ltd.
12 F. Century Ba-Shi Building,
No. 398 Huaihai Road (M)
Shanghai 200020
P.R. China
Phone +86 21 63868188
Fax +86 21 63867177
www.cnweidmuller.com
- CO Colombia**
Automatizacion Avanzada S. A.
Carrera 97 No. 42 A-23 B3,
Santafe de Bogotá Colombia.
Phone +57 1 4132048
Fax +57 1 4159788
mgallegos@
automatizacionavanzada.com
- CR Costa Rica**
ELVATRON S.A.
400 Norte
Banco Costa Rica, la Uruca,
San José, Costa Rica
Phone +506 2 961060
Fax +506 2 960328
dirk.haase@elvatron.com
- CS Republic of Serbia**
ES-YU Elektrosistem
Pariske komune 41
11070 Novi Beograd
Serbia
Phone +381 11 697212
Fax +381 11 693608
esyu@eunet.yu
www.elektrosistem.co.yu
- CZ Czech Republic**
Weidmüller s. r. o.
Videnska ul. 340
25242 Vestec u Prahy
Phone +420 2 44001400
Fax +420 2 44001499
office@weidmueller.cz
- DE Germany**
Weidmüller GmbH & Co. KG
Ohmstraße 9
32758 Detmold
Phone +49 5231 1428-0
Fax +49 5231 1428-116
weidmueller@weidmueller.de
www.weidmueller.de
- DK Denmark**
Knud Wexøe A/S
Skættekaeret 11
P.O. Box 152
2840 Holte
Phone +45 45465800
Fax +45 45465801
wexoe@wexoe.dk
- EC Ecuador**
Elsystec S.A.
Electricidad Sistemas y Tecnología
Joaquín Tinajero E 3-25 y Jorge Drom
Edificio Oquendo, Planta baja, Oficina 101
Quito, Ecuador
Phone +593 2 2245 241
Fax +593 2 2456 755
Sales.est@uio.satnet.net
- EE Estonia**
Alter Electric OÜ
Türi 6, 11313 Tallinn, Estonia
Phone +372 65 19 666
Fax +372 65 19667
alter@alter.ee
- EG Egypt**
Standard Electric
87, Mohamed Farid Street
Heliopolis, Cairo, Egypt
Phone +20 6 42 29777/6 42 29 88
Fax +20 6 42 29 55
stdelec@rite.com
- ES Spain**
Weidmüller S. A.
Narcis Monturiol 11-13
Pol.Ind. Sudoeste
08960 Sant Just Desvern
Barcelona
Phone +34 93 4803386
Fax +34 93 3718055
weidmuller@weidmuller.es
www.weidmuller.es
- FI Finland**
JUHA-ELEKTRO OY
Kiviväpölkki 8, P. O. Box 57
00681 Helsinki
Phone +358 10 8328 100
Fax +358 10 8328 169
- FR France**
Weidmüller EURL
12, Chaussée Jules César
B.P. 263 Osny
95523 CERGY PONTOISE Cedex
Phone +33 1 34245500
Fax +33 1 34245501
mail@weidmuller.fr
www.weidmueller.com
- GB United Kingdom**
Weidmüller Ltd.
1 Abbey Wood Road
Kings Hill, West Malling
Kent ME19 4YT
Phone +44 1732 877000
Fax +44 1732 873873
info@weidmuller.co.uk
www.weidmueller.com
- GR Greece**
Electrorama S.A.
1 An. Maritli Str.
41335 Larissa
Phone +30 2410 552533
Fax +30 2410 283463
valvizos@electrorama.com.gr
- HK Hong Kong**
United Equity Limited
Suite B, 11/F Industrial Industrial
Centre
2-8 Kwei Tei Street, Fotan, Shatin
Hong Kong
Phone +852 26876739
Fax +852 26876735
united_equity@sinatown.com
- HR Croatia**
Elektro Partner d.o.o.
Radnicka cesta 22
10000 Zagreb
Phone +385 1 6184793
Fax +385 1 6184795
elektropartner@zg.htnet.hr
- HU Hungary**
Weidmüller Kereskedelmi Kft
Mádi u. 50
1104 Budapest
P. O. Box 22
1507 Budapest
Phone +36 1 464-7888
Fax +36 1 3827701
info@weidmueller.hu
- ID Indonesia**
P. T. Nego Electrindo
Komplek Sentra Kramat, Blok A18
Jl. Kramat Raya No. 7-9
Jakarta 10450 Indonesia
Phone +62 21 3156218
Fax +62 21 3156219
sutrino@negoelectrindo.co.id
- IE Ireland**
A.P. Haslam Ltd.
14 Sunshine Ind. Estate
Crumlin Road
Dublin 12
Phone +353 1 453-2522
Fax +353 1 453-2949
paul.haslam@aphaslam.ie
- IL Israel**
A.U. Shay Ltd.
Embar Street 23/25
P.O.Box 10049
Petach-Tikva 49222
Phone +972 3 9233601
Fax +972 3 9234601
shay@uriel-shay.com
- IN India**
Weidmüller
Representative office
Vijay Dattani
156-4th cross, Prashant Extension
Whitefield
Bangalore - 560 066
Phone +91 80 8453999
vdattani@eth.net
- IR Iran**
TAF Co.
72, Iranshahr Av.
Unit 5,
15816 Teheran
Phone +98 21 8831-7851
Fax +98 21 8882-0268
info@taf-co.com
- IS Iceland**
Samey Automation Center
Lyngas 13, 210 Garoabaer,
Iceland
Phone +354 510 5200
Fax +354 510 5201
samey@samey.is
- IT Italy**
Weidmüller S.r.l.
Via Albert Einstein 4
20092 Cinisello Balsamo
Milano
Phone +39 02 660681
Fax +39 02 6124945
weidmuller@weidmuller.it
www.weidmuller.it
- JO Jordan**
Horizons Engineering
P.O. Box 330607 ZC
11133 Amman
Phone +962 64882114
Fax +962 4882115
horizons@go.com.jo
- JP Japan**
Nihon Weidmüller Co. Ltd.
Asahi Seimei Bldg, 11F
1-14-1 Fuchicho Fuchu-shi
Tokyo 183-0055 Japan
Phone +81 42 330-7891
Fax +81 42 330-7895
www.weidmuller.co.jp
- KR South Korea**
Weidmüller Co., Ltd.
2 floor Wooam B/D 46-27
Samsung2-Dong, Kangnam-Ku
Seoul
Korea, Zip: 135-868
Phone +82 2 5160003
Fax +82 2 5160090
info@weidmuller.co.kr
- KW Kuwait**
NOURI Industrial Establishment Co.
P.O.Box 2829,
Safat 13029 Kuwait
Phone +965 4333355
Fax +965 4344085
contact@nie-kwt.com

- KZ Kazakhstan**
SEA STAR INTERNATIONAL. L.L.P.
42-A, Suite-15, Dostyk Ave
Almaty - 050010
Republic of Kazakhstan
Phone +7 3272 2 662502 / 938842 / 910580 / 911193
Fax +7 3272 2 501780
sales@seastargroup.com
www.seastar.kz
- KZ Kazakhstan**
Electric Light LLP
84, Auezov Street
Office 310
480057 Almaty
Kazakhstan
Phone +7 3272 2 421709
Fax +961 1 561880
wgm@nursat.kz
- LB Lebanon**
Progress Engineering & Trading
Enterprises
P.O. Box 11-1111
Pharaon Bldg., Opp Electr. du Liban
Chafaca Str., Al Nahr
Beirut - Lebanon
Phone +961 1 444664
Fax +961 1 561880
progress@inco.com.lb
- LT Lithuania**
ELEKTROS IRANGA
Tinklu g.29a, 5319 Panevezys,
Lithuania
Phone +370 45582828
Fax +370 45582727
info@eliranga.lt
- LU Luxembourg**
Weidmüller Benelux B.V.
Phone +352 24 527145
Fax +352 24 527147
info@weidmuller.lu
- LV Latvia**
PROFS Latvija SIA
K. Ulmana gatve 140
LV-1029 Riga
Latvia
Phone +371 7870557
Fax +371 7870541
edgars.vilkins@profs.lv
www.profs.lv
- MD Moldova**
BERHORD A&D srl
44, srt. Sarmizegetusa 37/3
Off 414. b-dul Decebal, 3, MD2001
Chisinau, Republic of Moldova
Phone +373 22 507137
Fax +373 22 507134
atuleanu@berhord.com
- MK Macedonia**
ELEKTRO - SMK doool
UL. III Makedonska brigada b.b.
1000 Skopje
Macedonia
Phone +389 22 460 295
Fax +389 22 460 298
Elektro-smk@telekabel.net.mk
- MT Malta**
E.S.S.
Electrical Supplies & Services Ltd
104 J. Sciberras Str.
Hamrun
Malta HMR 08
Phone +356 21 255 777
Fax +356 21 255 999
robert@ess.com.mt
- MX Mexico**
W Interconnections, S.A. de C.V
Av. Ingenieros Civiles No. 204-B,
Conjunto Industrial Chachapa
72990 Chachapa,
Puebla Mexico
Phone +52 222 2866247/48/49
Fax +52 222 2866242
clientes@weidmuller.com.mx
- MY Malaysia**
Connect Plus Technology Sdn Bhd
9, Jalan PJS 11/24,
Bandar Sunway,
46150 Petaling Jaya,
Selangor Darul Ehsan,
Malaysia
Phone +60 3 5633 7363
Fax +60 3 5633 6562
andy@cptech.com.my
www.cptech.com.my
- NL Netherlands**
Weidmüller Benelux B.V.
Franciscusweg 221
1216 SE Hilversum
Postbus 1505
1200 BM Hilversum
Phone +31 35 6261261
Fax +31 35 6234569
info@weidmuller.nl
www.weidmuller.nl
- NO Norway**
Siv. Ing. J. F. Knudtzen A/S
Billingstadstletta 97
1396 Billingstad, P.O. Box 160
1378 Nesbru
Phone +47 66 983350
Fax +47 66 980955
patorgersbraaten@jfkknudtzen.no
- NZ New Zealand**
Cuthbert S. Steward Limited
27 Te Puni Street
POB 38496 Petone
Petone, Wellington
Phone +64 4 5686156
Fax +64 4 5686056
- OM Oman**
DAN INTERNATIONAL LLC.
PO BOX 2901
111 Seeb
Oman
Phone +968 503 677
Fax +968 503 755
yedu@danintl.com
- PE Peru**
TECNOLOGÍA ELÉCTRICA
Y SOLUCIONES S.A.C.
Calle Huandoy 501, Lima 32 - Perú
Phone +51 1 5620004
Fax +51 1 5620004
info@tecsol-peru.com
- PH Philippines**
El Criscent Corporation
B-41 L-10, Villa Palao,
Banlic, Calamba City
Laguna 4027,
Philippines
Phone +63 49 3456329
Fax +63 49 3456329
ecc@laguna.net
- PH Philippines**
Enclosure Systems Specialists Inc
G/F, GE Building
2291 Don Chino Roces Ava Ext
Makati City 1231,
Philippines
Phone +63 2 813 8580
Fax +63 2 813 8596
encsys@mozcom.com
- PL Poland**
Weidmüller Sp. z o.o.
ul. Golezdzinowska 10
03-302 Warszawa
Poland
Phone +48 22 5100940
Fax +48 22 5100941
biuro@weidmuller.com.pl
www.weidmuller.pl
- PT Portugal**
Weidmüller - Sistemas de
Interface, S. A.
Estrada Outeiro Polima, Lote B,
N° B2, Escritório 2 - Abóboda
2785-518 Sao Domingos de Rana
Lisboa
Phone +351 21 4459190
Fax +351 21 4455871
weidmuller@weidmuller.pt
www.weidmuller.pt
- PY Paraguay**
Please contact
CPI S.A., Buenos Aires, Argentina
- QA Qatar**
Doha Motors
(Technical Division)
Post Box No. 145
Al Wakrath Road
Doha-Qatar
Phone +974 465 1441
Fax +974 465 4579
dmtctech@qatar.net.qa
- RO Romania**
Rominterface Impex SRL
Str. Gh. Dem Teodorescu 30A
030916 Bukarest - sector 3
Phone +40 21 3220230
Fax +40 21 3228857
office@rominterface.ro
- RU Russia**
Weidmüller Representative Office
Shabolovka street 2
119049 Russia, Moskau
Phone +7 495 771-6940
Fax +7 495 771-6941
info@weidmueller.ru
www.weidmueller.ru
- SA Saudi Arabia**
Al Abdulkarim Trading
P.O. Box 5777, Dammam
31432 Saudi Arabia
Phone +966 3 833-7110
Fax +966 3 833-8242
info@akte.com.sa
- SA Saudi Arabia**
Saudi Electric Supply Co.
P.O. Box 3298, Al Khobar
31952 Saudi Arabia
Phone +966 3 882-9546227
Fax +966 3 882-9547
customer.service@sesco-ge.com
- SE Sweden**
Weidmüller AB
Axel Danielssons väg 27
1200 49 Malmö,
P.O. box 31025
200 49 Malmö
Phone +46 (0) 7 71 43 00 44
Fax +46 (0) 40 37 48 60
www.weidmuller.se
info@weidmuller.se
- SG Singapore**
Weidmüller Pte. Ltd.
629 Aljunied Road, #05-05
Cititech Industrial Building
Singapore 389838
Phone +65 6841 5311
Fax +65 6841 5377
info@weidmuller.com.sg
www.weidmuller.com.sg
- SI Slovenia**
ELEKTROŠPOJI d.o.o.
Stegne 25
1000 Ljubljana
Phone +38 6 15113810
Fax +38 6 15111604
elektrospoj@siol.net
- SK Slovakia**
Elektris s.r.o.
Racianska 188
SK 83153 Bratislava, Slovakia
Phone +421 2 49200113
Fax +421 2 44690328
weidmueller@computel.sk
- SY Syria**
Hovaguimian Bros.
P.O. Box 5093
Damascus
Syria
Phone +963 11-221 84 05
Fax +96311-224 48 69
Hb.hovag@mail.sy
- TH Thailand**
Pisanu Engineering Co., Ltd
800/2 Asoke Dindaeng Road,
Dindaeng,
Bangkok 10400
Thailand
Phone +66 2 2459113
Fax +66 2 2463214
ecsales@pisanu.co.th
www.pisanu.co.th
- TR Turkey**
Weidmüller Elektronik Ticaret Ltd. Şti.
Kavacik Mah. Mithrabad Cad. 143/1
34810 Beykoz - Istanbul / Turkey
Phone +90 216 5371070 (Pbx)
Fax +90 216 5371077
info@weidmuller.com.tr
- TW Taiwan**
Fittatek Co., Ltd.
12 F No. 185 Fu-Kuo Road,
Tso Ying Dist,
Kaohsiung, Taiwan
Phone +886 7556-0858
Fax +886 7556-3279
stanley@fittatek.com.tw
- TW Taiwan**
Eucan Enterprise Ltd.
No. 145 He Ping 2nd Rd
Kaohsiung, Taiwan
Phone +886 7 715 6610
Fax +886 7 715 8748
mark@eucan.com.tw
www.eucan.com.tw
- UA Ukraine**
TEKO INTERFACE ooo
ul. Lewanewskogo 6
03058 Kiev
Phone +38 044 401 09 90/91/92
Fax +38 044 401 08 64
weidmuller@tekointerface.com
www.tekointerface.com.ua
- US USA**
W-Interconnections, Inc.
821 Southlake Boulevard,
Richmond, VA 23236
Phone +1 804 7942877
Fax +1 804 3792593
info@weidmuller.com
www.weidmuller.com
- UY Uruguay**
Rewo Uruguay S.A.
Av. Bolivia 2001 Esq Rocafuerte
Carrasco Montevideo
Phone +598 260 4 8439
Fax +598 260 4 8439
clorda@rewouruguay.com.uy
- VE Venezuela**
Somerinca C. A.
Edificio Esteban Piso 2
Calle Vargas Bolleita Notre
Caracas 1070 A
Venezuela
Phone +58 212 2352748
Fax +58 212 2385625
klocmoeller@cantv.net
- VN Vietnam**
New Sky Co., Ltd
206 Nguyen Thai Binh Str.,
Ward 12., Tan Binh Dist.,
Ho Chin Minh City
Vietnam
Phone +848 811 6768
Fax +848 811 7899
newsky-e@hcm.vnn.vn
www.newsky-e.com
- YE Yemen**
Please contact
Weidmüller Middle-East
United Arab Emirates
- ZA South Africa**
Phambili Interface (Pty.) Ltd.
5 Bundo Road
Sebenza Extension
Edenvale 1609
P.O.Box 193
Edenvale 1610
Phone +27 11 452-1930
Fax +27 11 452-6455
alockyer@radinterface.co.za
- DE Other countries**
Weidmüller Interface GmbH & Co. KG
P.O. Box 3030
32720 Detmold
Klingenbergstraße 16
32758 Detmold
Phone +49 5231 14-0
Fax +49 5231 14-20 83
info@weidmuller.com
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