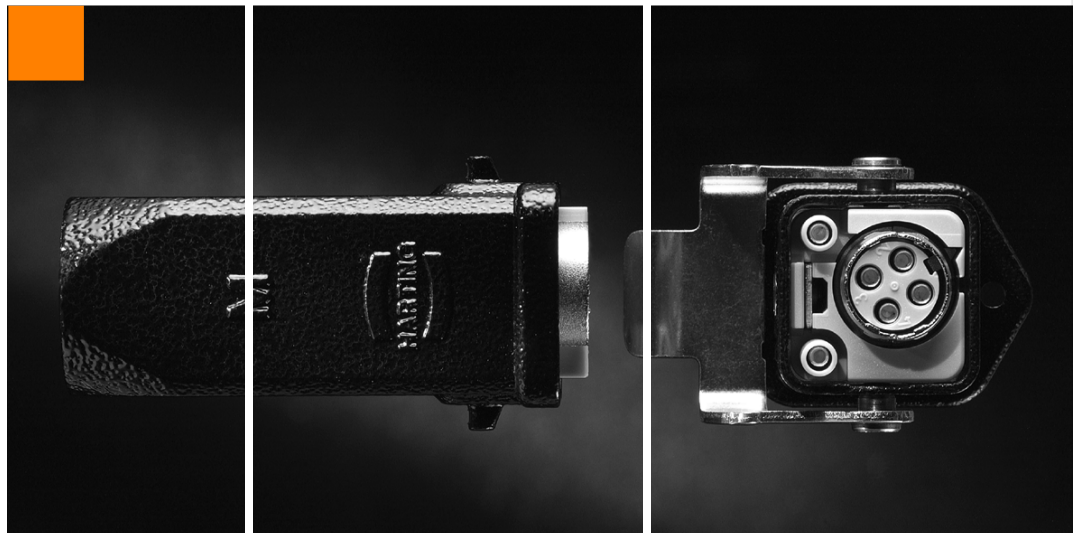
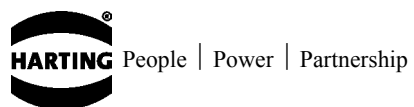


HARTING Electric



Han-Brid® Industrial Network Interfaces



Features

General Description

The Han-Brid® series allows the connection of a data interface and a power supply in a single space saving connector.

This means that it is now possible to provide data transmission and power to devices in a single bus structure.

This hybrid connector family includes provision for connection of a 50 V, 10 A power supply together with a range of inserts for connection of a variety of data protocols and transmission medias:

- Han-Brid® F.O. for plastic (POF) or for HCS®* optical fibre.
- Han-Brid® Cu for shielded twisted pair.
- Han-Brid® Quintax 3A for shielded 4 wire bus systems (2 pair STP).

Han-Brid® inserts fit into the standard plastic as well as metal hoods and housings of the Han® 3A series offering a degree of protection IP 65 according to DIN EN 60529. For harsher environments Han® 3 HPR hoods and housings with a degree of protection of IP 68 can be used.

* HCS® is a registered trade mark of SpecTran Corporation

Power Supply

- Han D® male and female are standard crimp contacts
- Rated current: 10 A
- Rated voltage: 50 V
- Wire gauge: 0.14 - 2.5 mm²
- Specification UL

Data Interfaces

Han-Brid® F.O.

- Is suitable for all HP Versatile Link (Horizontal Package) transmitters and receivers
 - Data rates: Standard 12MBit/s
 - suitable for all common fieldbus systems
- Insert allows integration of HP standard contacts: suitable for POF and HCS®* fibres
crimp for POF and HCS
crimpless for POF
- Temperature range: -40°C to +70°C

* HCS® is a registered trade mark of SpecTran Corporation

Han-Brid® Cu

- For termination of a shielded twisted pair
- Insert for 2 x Han D® male or female contacts
- Connection of the shield by means of shielding plate and fixing clamps
- Connection of the device side can be realized either by a printed circuit board as a modular version or as part of the appliance PCB
- Temperature range: -40°C to +125°C
- Insert for bulkhead mounted housing and the coupling housing are always equipped with an screening spring.

Bus Terminator

- Active bus terminator in male and female version
- Standard Han® 3A hoods and housings
- Power supply to the termination network via electrical contacts of Han-Brid®
- Integrated, galvanically separated DC/DC converter 24V / 5V

Han-Brid® Quintax 3A

- Possibility to terminate shielded 4 wires conductors (2 pair STP)
- Suitable for all 4 wires bus systems
- Suitable for shielded cable conductor diameter 3 - 9.5 mm
- Transmission of shielding separately from the hood's ground
- Connections are carried out acc. to DIN EN 50 173, cat. 5
- Temperature range: -40°C to +70°C

Hybrid Field Bus Connector
for shielded twisted pair

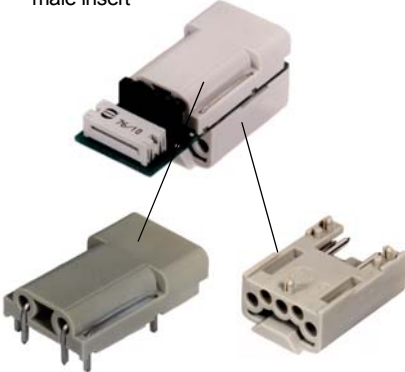
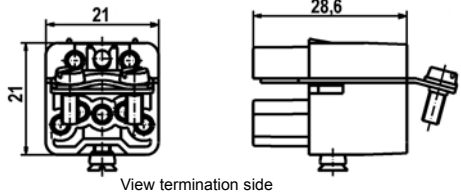
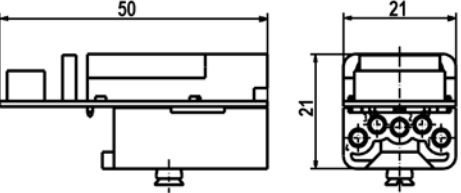
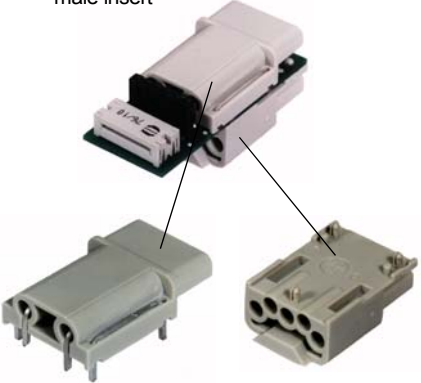
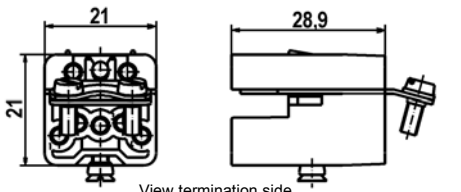
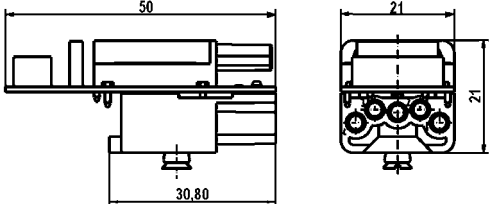
+ 4 electrical contacts 10A
with option for PE

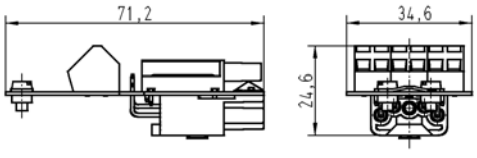
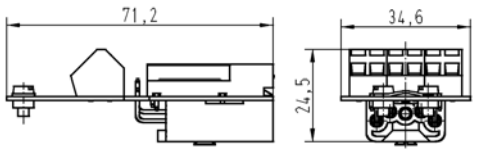
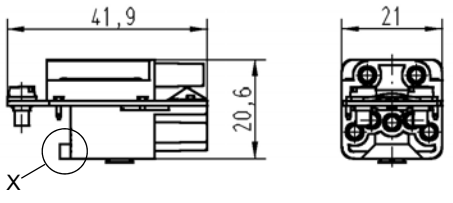
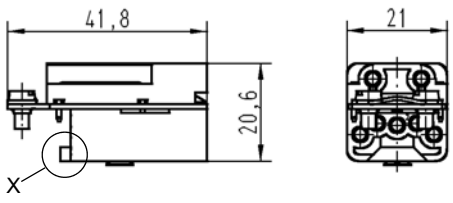
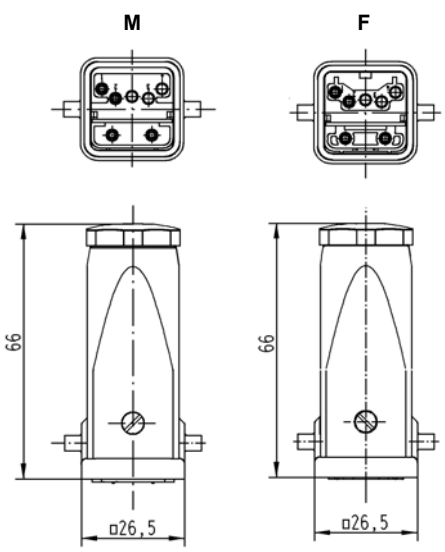


DESINA® conforming product

For more information conc. DESINA: www.desina.com



Inserts	Part-Number	Drawing	Dimensions in mm
Cable side female insert  Device side male insert 	09 12 006 3111 09 12 006 2611 also available as single parts loaded 09 12 002 2611 unloaded 09 12 002 3011 09 12 004 3011	 	
Cable side female insert  Device side male insert 	09 12 006 3001 09 12 006 2701 also available as single parts loaded 09 12 002 2701 unloaded 09 12 002 3101 09 12 004 3101	 	

Inserts	Part-Number		Drawing	Dimensions in mm
	Female Insert	Male Insert		
Panel feed through with cage clamp 	09 12 006 2795	09 12 006 2695	Drawing 09 12 006 2795  Drawing 09 12 006 2695 	
Coupling / Panel feed through  X = Cutting off the fin allows the use in cable to cable housings	09 12 006 2794	09 12 006 2694	Drawing 09 12 006 2794  Drawing 09 12 006 2694 	
Bus terminator Plastic version  Metal version 	09 12 006 2791	09 12 006 2691	M F 	
	09 12 006 2792	09 12 006 2692		



Panel Feed Through

Description

- Han-Brid® USB port for the use in control cabinets etc.
- Possibility to connect printers, webcams and other computer devices.
- The port can be closed with a cover and thus IP 65 can be reached.

Han-Brid® USB

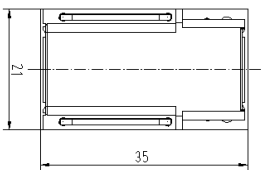
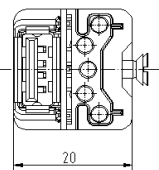
Part-Number

Drawing

Dimensions in mm

Panel Feed Through

09 12 001 2794



Number of contacts

4 + Shielding

+ 2 Power Contacts

Suitable for Han® 3A metric hoods and housings

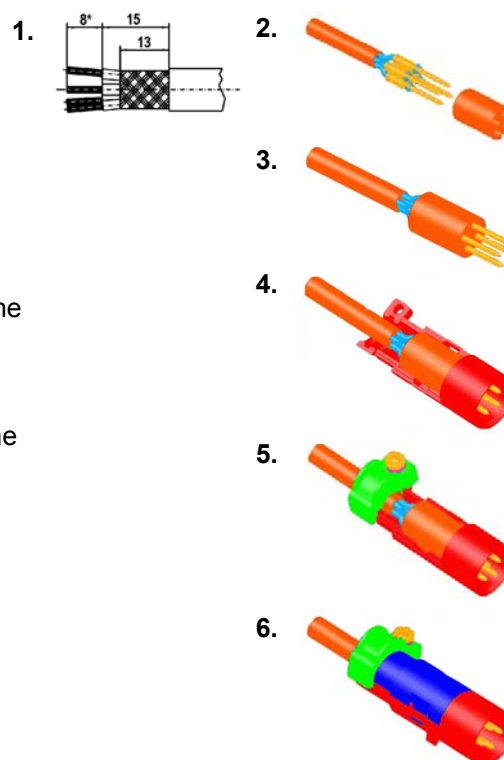


Reference	Cable Ø mm	Part-Number		Drawing	Dimensions in mm
		Male Insert	Female Insert		
Quintax-Insert 	—	09 15 003 3001			
	—		09 15 003 3101		
Quintax-Z-Contact Zinc alloy Crimp contacts order separately 	3 - 9,5	09 15 004 3013	09 15 004 3113		
		Special clamp for cable diameter 3 - 6 and 6 - 9.5 mm included in delivery range			

Assembly Manual

Quintax-Z-contact

- Strip cable acc. to drawing 1 and fold the shielding over the cable.
- Crimp Han® D contacts onto the wires.
- Insert Han® D contacts into corresponding cavities of insulator until they are snapped in.
- Fit the insert including the cable into the opened shielded bushing. The coding pin of the shielded bushing has to meet the groove of the insulator.
- Clamp the tilt over the shielding onto the cable by means of the special clamp (small opening for cable diameter of 3 - 6 mm, large opening for cable diameter of 6 - 9.5 mm).
- Check the wiring.
- Close the shielded bushing with the cover and insert it into the corresponding cavity of the Quintax Module as usual.



Hybrid Field Bus Connector with FOC transmitter and receiver

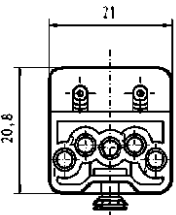
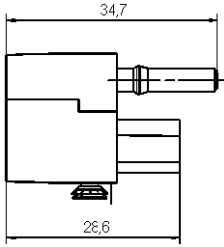
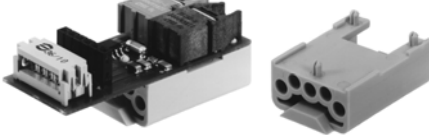
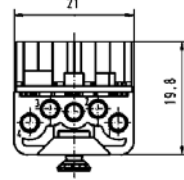
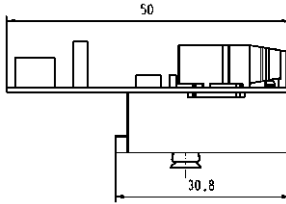
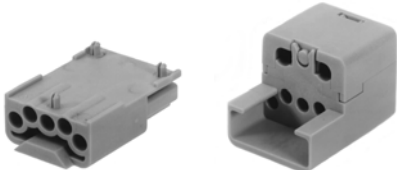
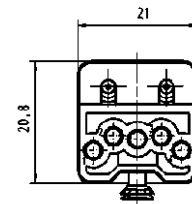
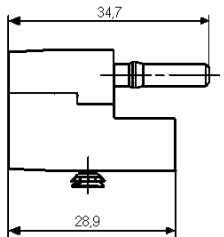
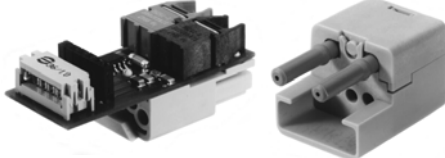
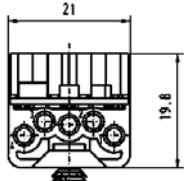
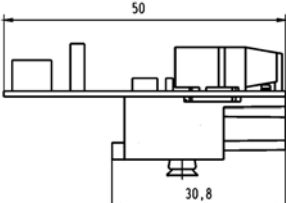
+ 4 electrical contacts 10A
+ option for PE



DESINA® conforming product

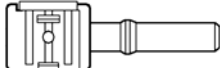
For more information conc. DESINA: www.desina.de



Inserts	Part-Number	Drawing	Dimensions in mm
Cable side FOC(m) + Han-D®(f)  Please order POF contacts separately, see page10.	also available without FO devices for POF 09 12 004 2711 09 12 004 3111 for POF crimpless 09 12 004 2713 09 12 004 3113 for HCS®* Fibre 09 12 004 2716 09 12 004 3116 * HCS® is a registered trade mark of SpecTran Corporation	 View termination side	
Device side FOC(f) + Han-D®(m) 	for POF 09 12 004 2611 09 12 004 3011 for POF crimpless 09 12 004 2611 09 12 004 3011 for HCS®* Fibre 09 12 004 2611 09 12 004 3011		
Cable side FOC(m) + Han-D®(m)  Please order FO contacts separately, see page10.	also available without FO devices for POF 09 12 004 2601 09 12 004 3001 for POF crimpless 09 12 004 2603 09 12 004 3003 for HCS®* Fibre 09 12 004 2606 09 12 004 3006	 View termination side	
Device Side FOC(f) + Han-D®(f) 	for POF 09 12 004 2701 09 12 004 3101 for POF crimpless 09 12 004 2701 09 12 004 3101 for HCS®* Fibre 09 12 004 2701 09 12 004 3101		

Contacts	Wire gauge mm ²	Part-Number		Drawing	Dimensions in mm
		Male contact	Female contact		
Crimp contacts order separately	0.14-0.37	09 15 000 6104	09 15 000 6204		
	0.5	09 15 000 6103	09 15 000 6203		
	0.75	09 15 000 6105	09 15 000 6205		
	1	09 15 000 6102	09 15 000 6202		
	1.5	09 15 000 6101	09 15 000 6201		
	2.5	09 15 000 6106	09 15 000 6206		
silver plated	0.14-0.37	09 15 000 6124	09 15 000 6224		
	0.5	09 15 000 6123	09 15 000 6223		
	0.75	09 15 000 6125	09 15 000 6225		
	1	09 15 000 6122	09 15 000 6222		
	1.5	09 15 000 6121	09 15 000 6221		
	2.5	09 15 000 6126	09 15 000 6226		
gold plated	0.14-0.37	09 15 000 6124	09 15 000 6224		
	0.5	09 15 000 6123	09 15 000 6223		
	0.75	09 15 000 6125	09 15 000 6225		
	1	09 15 000 6122	09 15 000 6222		
	1.5	09 15 000 6121	09 15 000 6221		
	2.5	09 15 000 6126	09 15 000 6226		

Wire gauge mm ²	AWG	Ø	Stripping length
0.14-0.37	26-22	0.90 mm	8 mm
0.5	20	1.10 mm	8 mm
0.75	18	1.30 mm	8 mm
1	18	1.45 mm	8 mm
1.5	16	1.75 mm	8 mm
2.5	14	2.25 mm	6 mm

F.O. contacts	Part-Number		Drawing	Dimensions in mm
Single connector for Han-Brid® F.O.	Crimp POF	20 10 001 7111		
	Crimpleless POF	20 10 001 7112		
	HCS*	20 10 230 7111		
* HCS® is a registered trade mark of SpecTran Corporation				

Hoods and housings

- Han® 3A housings with glued sealing: IP 65
IP 67
- Plastic version
- Metal version
- EMC version
- Han® HPR (pressure tight, EMC tight) protection degree: IP 68
- Han-Brid® Quintax only suitable for metric hoods

For further information concerning cable glands as well as hoods and housings with Pg see chapter 30, concerning metric hoods and housings see chapter 31 in the main catalogue of the HARTING Electric.

Han® 3A 	Part-Numbers			
	Versions	Plastic grey	Plastic black	Metal
Hood	top entry + Pg	09 20 003 0423 ¹⁾²⁾	09 20 003 0426 ¹⁾²⁾	09 20 003 1443 ¹⁾²⁾
	metric	19 20 003 0423 ¹⁾	19 20 003 0426 ¹⁾	19 20 003 1443 ¹⁾
Hood	angled + Pg	09 20 003 0623 ¹⁾²⁾	09 20 003 0626 ¹⁾²⁾	09 20 003 1643 ¹⁾
	metric	19 20 003 0623 ¹⁾	19 20 003 0626 ¹⁾	19 20 003 1643 ¹⁾
Bulkhead mounted	+ Pg	09 20 003 0320 ¹⁾	09 20 003 0327 ¹⁾	09 20 003 0301 ¹⁾
Coupling housing	metric	19 20 003 0720	19 20 003 0727	19 20 003 1750
¹⁾ Hoods with glued sealing ²⁾ Cable glands are included in the delivery range				

Cable gland

	Pg 11 ø 7.0 - 9.5 - 12.0 mm	metric, M 20 cable ø 5 - 9 mm
Plastic black, IP 65	09 00 000 5182	19 00 000 5180
Metal, IP 65	09 00 000 5183	19 00 000 5080

Subsidiary Companies - worldwide



Austria

HARTING Ges.m.b.H.
Deutschstrasse 3; A-1230 Wien
Phone +43 1 6 16 21 21
Fax +43 1 6 16 21 21-21
E-Mail: at@HARTING.com

Belgium

HARTING NV-SA
Doornveld 8; B-1731 Zellik
Phone +32 2 4660 190; Fax +32 2 4667 855
E-Mail: be@HARTING.com

Brazil

HARTING Ltd.a.
Av. Dr. Lino de Moraes Leme, 225
CEP 04360-001 São Paulo - Brazil
Phone +55 11 5034 0073
Fax +55 11 5034 4743
E-Mail: br@HARTING.com

China

HARTING (HK) Ltd.; Beijing Branch Office
311, 3/F, Mi Yang Tower, Yong An Dong Li
Jian Guo Men Wai Ave., Beijing 100022
Phone + 8610 6568 2464
Fax + 8610 6568 1465

HARTING (HK) Ltd.; Shanghai Branch Office
RM 2302; HongKong Plaza South Tower
283 Huai Hai Rd. (M)
Shanghai, 200021 PR CHINA
Phone +8621 6390 6935; Fax +8621 6390 6399
E-Mail: ChinaSales@HARTING.com.cn

Czech Republic

HARTING spol s.r.o.
Mlynská 2, 16000 Praha 6
Phone +420 2 203 80 450
Fax +420 2 203 80 451
Internet: http://www.HARTING.cz
E-Mail: HARTING@HARTING.cz

Finland

HARTING OY
Hakamaenkujä 11 A, FIN-01510 Vantaa
Phone +358 93 50 87-300
Fax +358 9 350 87-320
E-Mail: fi@HARTING.com

France

HARTING France; Paris Nord 2
181, Av. des Nations, B.P.60058 Tremblay en France
F-95972 Roissy Charles de Gaulle Cédex
Phone +33 1 49 38 34 00
Fax +33 1 48 63 23 06
E-Mail: fr@HARTING.com

Germany

HARTING Deutschland GmbH & Co. KG
P.O. Box 2451; D-32381 Minden
Simeons carré 1; D-32427 Minden
Phone +49 571 8896-0; Fax +49 571 8896-282
E-Mail: de.sales@HARTING.com
Internet: www.HARTING.com

Great Britain

HARTING Ltd.
Caswell Road, Brackmills Industrial Estate
GB-Northampton, NN4 7PW
Phone +44 1604-76 66 86
Fax +44 1604-70 67 77
Internet: http://www.HARTING.co.uk
E-Mail: gb@HARTING.com

Hong Kong

HARTING (HK) Ltd.
Regional Office Asia Pacific
4208 Metroplaza Tower 1; 223 Hing Fong Rd.
Kwai Fong, N.T.; Hong Kong;
Phone +852 24 23 73 38
Fax +852 24 80 43 78
E-Mail: AsiaPacific@HARTING.com.hk

Italy

HARTING SpA
Via Dell'Industria 7
I-20090 Vimodrone (Milano)
Phone +39 2 25 08 01
Fax +39 2 2 65 05 97
E-Mail: it@HARTING.com

Japan

HARTING K.K.
Yusen Shin-Yokohama 1 Chome Bldg., 2F, 1-7-9,
Kohoku-ku, Yokohama 222 0033/Japan
Phone +81 45 476-3456
Fax +81 45 476-3466
Internet: http://www.HARTING.co.jp
E-Mail: JapanSales@HARTING.com

Korea

HARTING Korea Ltd.
FKI Building, 14th Floor; 28-1 Yoido-dong,
Yongdungpo-gu; Seoul 150-758; Sth. Korea
Phone +82 2 784 4614; Fax +82 2 3776 0070
E-Mail: KoreaSales@HARTING.co.kr

Malaysia

HARTING Singapore Pte. Ltd
Kuala Lumpur Branch Office
1102, Level 11 Menara Amcorp
Jln. Persiaran Barat, 46200 PJ, Sel. D.E.
Phone +60 3 7955 6173, Fax +60 3 7955 5126
E-Mail: AgnesYip@HARTING.com.my

The Netherlands

HARTING B.V.
Larenweg 44, NL-5234 KA's-Hertogenbosch
Postbus 3526; NL-5203 DM's-Hertogenbosch
Phone +31 73 641 0404; Fax +31 73 644 0699
E-Mail: verkoop.nl@HARTING.com

Norway

HARTING A/S
Østensjøveien 36, N-0667 Oslo
Phone +47 22 700-555
Fax +47 22 700-570
E-Mail: no@HARTING.com

Russia

HARTING ZAO
ul. Tobolskaja 12; 194044 Saint Petersburg
Phone +7 812 3 27 64 77
Fax +7 812 3 27 64 78
Internet: http://www.HARTING.ru
E-Mail: info@HARTING.ru

Singapore

HARTING Singapore Pte. Ltd
No. 1 Coleman Street; #B1.21 The Adelphi
179803 Singapore
Phone +656 225 52 85
Fax +656 225 99 47
E-Mail: SEAsiaSales@HARTING.com.my

Spain

HARTING Iberia S.A.
Josep Tarradellas 20-30, 4°-6ª
E-08029 Barcelona
Phone +34 933 63 84 75; Fax +34 934 19 95 85
E-Mail: es@HARTING.com

Sweden

HARTING AB
Fagerstagatan 18 A, 5. TR.
S-16353 Spånga
Phone +46 8 4 45 7171
Fax +46 8 4 45 7170
E-Mail: se@HARTING.com

Switzerland

HARTING AG
Industriest. 26
CH-8604 Volketswil
Phone +41 1 9 08 20 60
Fax +41 1 9 08 20 69
E-Mail: ch.zh@HARTING.com

Taiwan

HARTING R.O.C. Ltd.
Room 6, 10th Floor No. 171
Sung Te Road; TAIPEI, Taiwan
Phone +886 2 2346-3177
Fax +886 2 2346-2690
E-Mail: TaiwanSales@HARTING.com.tw

USA

HARTING Inc. of North America
1370 Bowes Road
Elgin, IL 60123; Phone +1 847 741-1500;
Fax +1 847 741-8257 (Customer Service)
Fax +1 847 717-9420 (Sales and Marketing)
Internet: http://www.HARTING-USA.com
E-Mail: more.info@HARTING.com

Eastern Europe

HARTING Bauelemente GmbH
Vertrieb Osteuropa
Bamberger Straße 7; D-01187 Dresden
Phone +49 351 436 17 60
Fax +49 351 436 17 70
E-Mail: Daniela.Schubert@HARTING.com

Other countries

Please contact the Global Business Unit
HARTING Electric

Representatives - worldwide



Argentina

Condel Electronica
Julian Agüero 3355
(1605) Munro - Pcia. de Buenos Aires
Phone + Fax: +54 11 47620118
E-Mail: mediavicondel@arnet.com.ar

Roberto Mediavilla

Rivera Indarte 390, (5000) Córdoba
Phone +54 351 424 5027
Fax +54 351 421 2282
E-Mail: rmediavilla@arnet.com.ar

Australia

ADILAM Electronics Pty. Ltd.
14 Nicole Close; North Bayswater
3153 VICTORIA
Phone +61 3 9761 4900
Fax +61 3 9737 4999
E-Mail: Mark.c@adilam.com.au
Internet: http://www.adilam.com.au

Denmark

Knud Wexøe A/S; Skaettekaeret 11
P.O. Box 152; DK-2840 Holte
Phone +45 45 46 58 00
Fax +45 45 46 58 01
E-Mail: wexoe@wexoe.dk
Internet: http://www.wexoe.dk

Finland

SKS-automaatio Oy
Martinkyläntie 50, FIN-01721 Vantaa
Phone +385 9 852 661
Fax +385 9 852 68 20
E-Mail: automaatio@sk.fi

Hungaria

Mile Kft., Mádi u. 52, H-1104 Budapest
Phone +36 1 431 9800, Fax +36 1 431 9817
E-Mail: milekft@mile-kft.hu
Internet: http://www.mile-kft.hu

India

Sahajanand Impex Pvt. Ltd.
103/ 104 Magnum Opus; Shantinagar;
Vakola Santacruz (East); Mumbai, 400 015
Phone +91 22 5692 5151
Fax +91 22 5692 1026
E-Mail: sahanand@vsnl.com
Internet: http://www.sahanand.com

Poland

Soyter Sp. z o.o.
ul. Warszawska 3
05-082 Warszawa - Stare Babice
Phone +48 22 7220 685
Fax +48 22 7220 550
E-Mail: handlowy@soyter.com.pl
Internet: http://www.soyter.com

Portugal

HARTING Iberia S.A.
Phone + 351 219 67 31 77
Mobile + 351 917 57 68 58
Fax + 351 219 67 05 50

South-Afrika

Hellermann (Pty) Ltd.
Private Bag X 158 Rivonia 2128;
Milky Way Avenue
Linbro Industrial Park 2065; Johannesburg
Phone +27 11 879-6600
Fax +27 11-879-6606
E-Mail: sales.jhb@hellermann.co.za

Turkey

Gökhan Elektrik San. Tic. Ltd. Sti.
Perpa Elektrikçiler Is Merkezi A Blok
Kat: 7-8-9 No. 694
TR-80270 Okmeydani/Istanbul
Phone +90 212 221 32 36;
Fax +90 212 221 32 40
E-Mail: gokhan@gokhanelektrik.com

Global Business Unit Electric



HARTING Electric GmbH & Co. KG
Postfach 1473; D-32328 Espelkamp
Phone +49 5772 47-97100
Fax +49 5772 47-945
E-Mail: HARTING.Electric@HARTING.com
Internet: http://www.HARTING.com



People | Power | Partnership