HIRSCHMANN

Automation and Network Solutions

Modbus

Fiberoptic Repeaters for all Modbus Networks

The Next Step in Reliability for Modbus Networks

Modbus Products from Hirschmann

Hirschmann offers fiberoptic converters for all kinds of Modbus protocols.

From high speed Modbus Plus systems to sensor-actuator communication with PLCs based on Modbus RTU, Hirschmann supplies the corresponding fiber-optic repeaters.

Customer's problems

- Electromagnetic interference with data on conventional copper cables
- Transmission length problems due to limited copper range
- Ground loops and potential-induced currents via data cables
- Down times caused by cable distortions without redundancy mechanisms

Problem solution

Fiberoptic transmission technology eliminates all interference with the data on the cable through superior physical properties, overcomes the limitations of copper cable length, especially with single mode fiber, and physically avoids any electrical current in the fiber.

Hirschmann repeaters reduce the risk of installation down time with ultrafast redundancy mechanisms. For a further increase in fault-free operation, some repeaters offer remote surveillance possibilities and support pre-emptive maintenance with measurement outputs.

Want to know more?
You can find detailed information in our "FiberINTERFACES" catalogue or at "www.hirschmann.com".

Fiberoptic technology and Redundancy mechanisms by Hirschmann

Fiberoptic repeaters for all kinds of Modbus

Kind of modbus	**Modnet 1/ Modbus Plus** the high speed network	**Modnet 1/P** according to PROFIBUS standard	**Modnet 1/IS** acc. to INTERBUS standard **Modnet 1/SFB** acc. to BITBUS standard	**Modbus RTU** based on RS 485 or RS 232 **Modbus ASCII** based on RS 485 or RS 232
Product name	OZD Modbus Plus G12	OZD Profi …	OZD 485 …	OZD 485 … OZDV 2451 … OZDV 2471 …
Description/application	Optimised product for Modbus Plus networks	Product line for all kinds of fibers	Versatile fieldbus repeaters	Converters for all kinds of fibers
Housing	Compact metal housing for DIN rail mounting	Compact metal housing for DIN rail mounting	Compact metal housing for DIN rail mounting	Compact metal housing for DIN rail mounting or plug-on module
Redundancy	Redundancy based on HIPER ring	Redundancy based on HIPER ring	Redundancy based on HIPER ring	Redundancy based on HIPER ring
Maintenance		Pre-emptive maintenance enabled by diagnostic outputs	Pre-emptive maintenance enabled by diagnostic outputs	Pre-emptive maintenance enabled by diagnostic outputs
Transmission distance	8 000 m	15 000 m	22 000 m	22 000 m

Modbus is widely used in all branches of automation with applications in factory, process and traffic automation

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Germany
Hirschmann Electronics GmbH
Automation and Network Solutions
Stuttgarter Straße 45-51
D-72654 Neckartenzlingen
Postfach 1649
D-72606 Nürtingen
Tel. +49-71 27-14-14 80
Fax +49-71 27-14-14 95/-14 96
E-mail: ans-hi-line@hirschmann.de
http://www.hirschmann.com

Switzerland
Hirschmann Electronics GmbH,
Neckartenzlingen
Zweigniederlassung Uster
Seestrasse 16
CH-8610 Uster
Tel. +41-44-9 05 82 82
Fax +41-44-9 05 82 89
E-mail: ans_ch@hirschmann.ch

France
Hirschmann Electronics S.A.S.
2, rue des Charpentiers
F-95330 Domont
Tel. +33-1-39 35 01 00
Fax +33-1-39 35 01 02
E-mail: ans@hirschmann.fr

UK
Hirschmann Electronics Ltd.
4303 Waterside Centre
Solihull Parkway
Birmingham Business Park
Birmingham
West Midlands
B37 7YN
Tel. +44-1 21-3 29-50 00
Fax +44-1 21-3 29-50 01
E-mail: enquiry@hirschmann.co.uk

Netherlands
Hirschmann Electronics B.V.
Pampuslaan 170
1382 JS WEESP
Postbus 92
NL-1380 AB Weesp
Tel. +31-2 94-4 62-5 91
Fax +31-2 94-4 62-5 54
E-mail: ans@hirschmann.nl

Spain
Hirschmann Automation and Control S.L.
Calle Trespaderne, 29
Edificio Barajas I, 2a Planta
E-28042 Madrid
Tel. +34-91-7 46 17 30
Fax +34-91-7 46 17 35
E-mail: hes@hirschmann.es

USA
Hirschmann Electronics Inc.
20440 Century Boulevard, Suite 150
Germantown, MD 20874
Tel. +1-2 40 6 86 23 00
Fax +1-2 40 6 86 35 89
E-mail: ans@hirschmann-usa.com

China
Hirschmann Electronics
Pte Ltd Shanghai Office
Room 828, Summit Center
1088 West Yan An Road
Shanghai 200052
P.R. China
Tel. +86-21-62 07-66 37
Fax +86-21-62 07-68 37
E-mail: info@hirschmann.sh.cn

Singapore
Hirschmann Electronics Pte. Ltd.
2 International Business Park #11-02/03
The Strategy Singapore 609930
Tel. +65-63 16 77 97
Fax +65-63 16 79 77
E-mail: info@hirschmann.com.sg

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DS 280 720-858 · Printed in Germany · Edition 2 02/05 · Ust-IdNr.: 145355915. Errors and omissions excepted. Specifications subject to change.