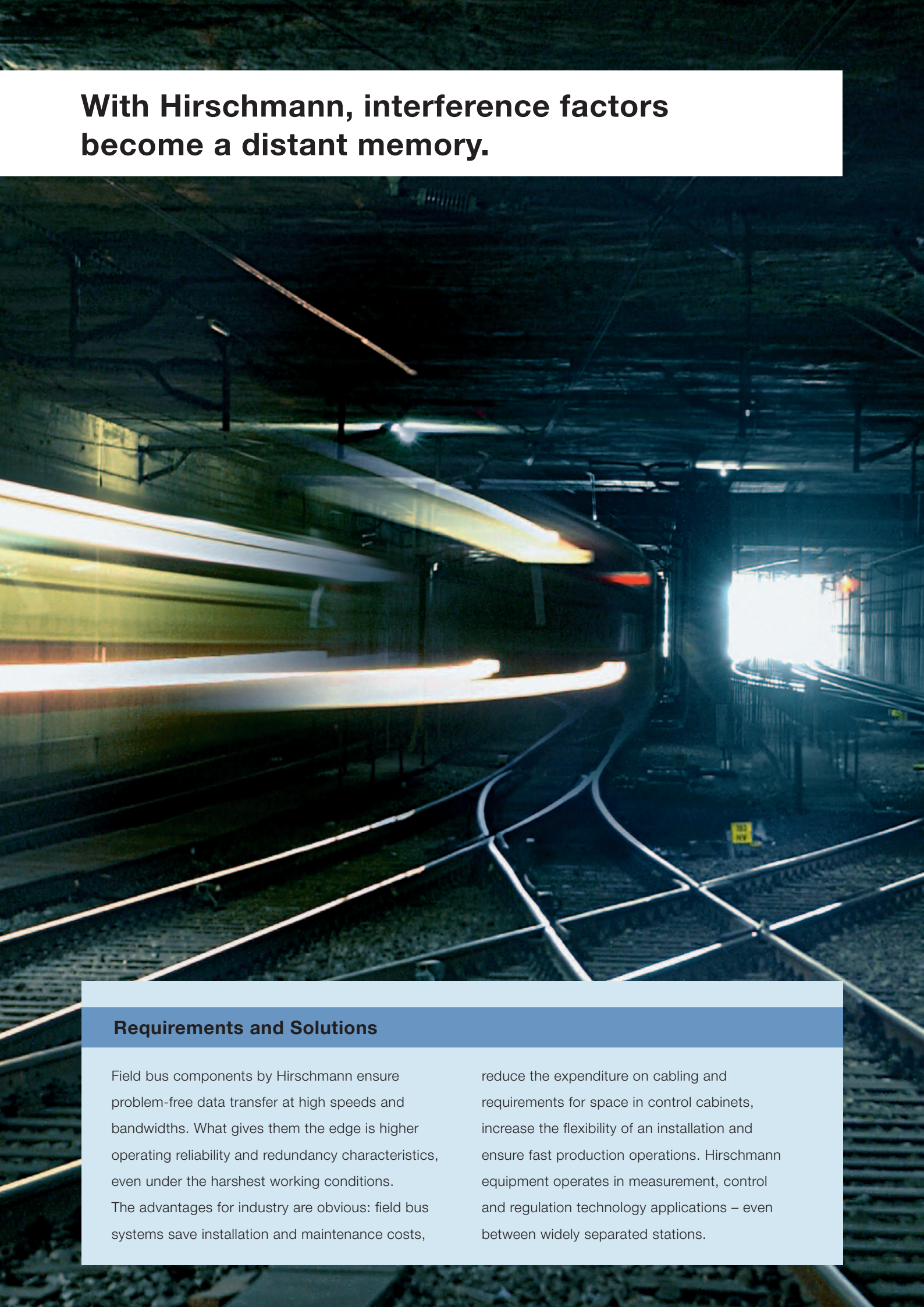




**With Hirschmann, interference factors
become a distant memory.**

Requirements and Solutions

Field bus components by Hirschmann ensure problem-free data transfer at high speeds and bandwidths. What gives them the edge is higher operating reliability and redundancy characteristics, even under the harshest working conditions. The advantages for industry are obvious: field bus systems save installation and maintenance costs,

reduce the expenditure on cabling and requirements for space in control cabinets, increase the flexibility of an installation and ensure fast production operations. Hirschmann equipment operates in measurement, control and regulation technology applications – even between widely separated stations.



HIRSCHMANN

Hirschmann. Simply a good Connection.



- Production bases
- Sales-subsiidiaries
- Selected distribution partners

Hirschmann Automation and Control GmbH

Industrial ETHERNET

FiberINTERFACES

Industrial Connectors

Test & Measurement

Electronic Control Systems

WWW.HIRSCHMANN.COM

"The information/details in this publication merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be deemed binding if these are expressly agreed on conclusion of the contract."



Automation and Control

Distance is no longer a problem.
Field bus components

- Reliable transmission over long distances
- The first choice in EMC polluted environments
- Certifications for hazardous locations and nuclear power plants
- Extremely fast redundancy



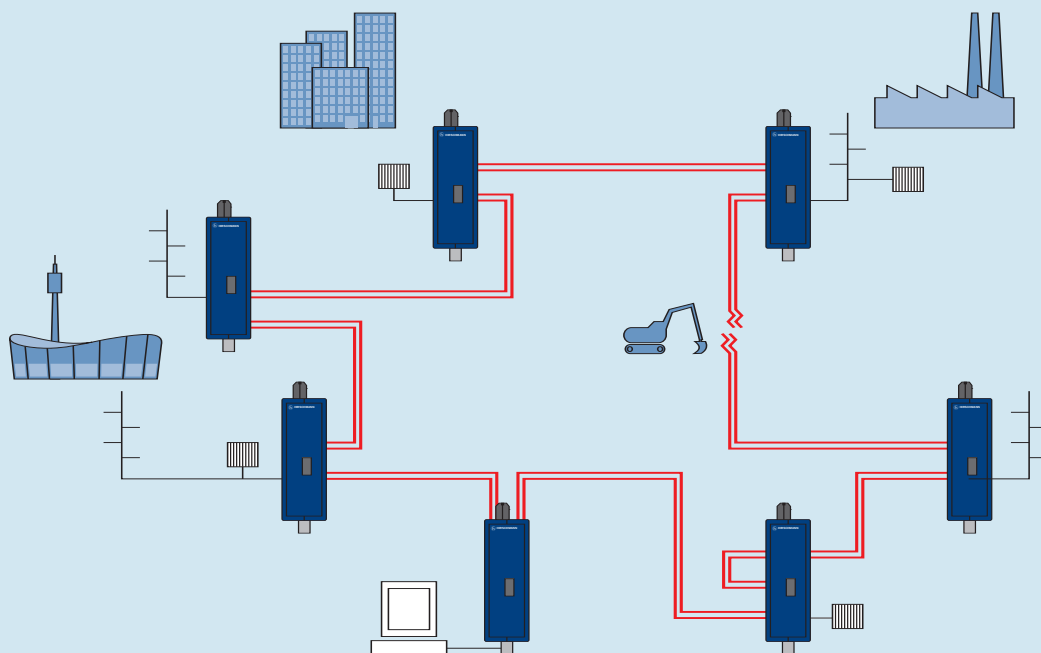
HIRSCHMANN

Our bus connections are not just for short-haul passenger traffic.

Applications

Wherever there is constant development of automation and where compromises in operating reliability are not an option, field buses provide you with bidirectional transmission of information. Optical fiber cables offer fault-free data communication over long distances, even under the worst environmental conditions. And there's

no need for costly installation – they can be laid directly on high-power equipment or parallel to high-power cables. Use them to connect terminal devices such as computers, image processing systems or programmable memory controllers as well as peripheral devices.



Product features

Irrespective of whether you want to use a field bus in process, transport or factory automation, the right product solution always depends on the control system – and this gives rise to a multitude of different field bus systems and

components. Hirschmann offers product lines for all the leading field bus protocols and support for all types of optical fiber cables and international certifications for hazardous locations.

Data and facts



PROFIBUS FMS/DP



Genius Bus



WordFIP

Main company

Siemens

GE-Fanuc

Schneider Electric

Main geographic location

Europe, USA,
Far East

USA, Far East

F, I, GB, B

Primary applications

Transport, process
control, machine
building and plant
construction

Transport,
process control

Transport, machine
building and plant
construction

Applicable Hirschmann products

OZD Profi

OZD Genius

OZD FIP

Bit rate

9.6 kbit/s
up to 12 Mbit/s

153.6 kbit/s
76.8 kbit/s
38.4 kbit/s

31.25 kbit/s
1 Mbit/s
2.5 Mbit/s, 5 Mbit/s

Applications

Hirschmann field bus components are designed to handle even the most demanding industrial applications without any problems.



Transmitting large amounts of data over large distances – that is what transport automation thrives on.





Modbus Plus

Schneider Electric

USA

Process control

OZD Modbus Plus

1 Mbit/s



Modbus RTU

Schneider Electric

USA, Far East

Process control

OZD 485

19.2 kbit/s



DH 485

Rockwell

USA, Far East

Machine building
and plant
construction

OZD 485

9.6 kbit/s
19.2 kbit/s



Interbus-S

Phoenix Contact

Europe

Machine building
and plant
construction

OZD 485

300 kBit/s (periphery)
500 kBit/s
2 MBit/s (remote bus)

Secure data transfer ensures interference-free production operations in manufacturing.



Field bus components connect sensors and actuators to control and analysis devices.

