Setting the course for the future

With standard safety controllers

SAFETY
NONSTOP

HIMA

8

Full speed ahead for standard solutions

Safety programmable logic controllers (PLCs) from HIMA make the choice clear. Compared with costly specialized solutions, our commercial off-the-shelf (COTS) solutions offer maximum safety, flexibility and sustainability while also reducing investment and operating costs.

Industry-standard HIMA safety PLCs are suitable for use in many railway applications, including signaling equipment, level crossings, rolling stock and power supply. No customized components need to be developed. Just as important to your long-term success, HIMA modular safety systems can be expanded easily to meet your requirements.

Modern COTS solutions – Persuasive advantages

- Manifold uses
- Tried and tested components
- Proven communication
- Fast diagnosis of potential faults
- Wide availability of programmers
- Manufacturer-independent, open interface management
- Lower development costs
- Reduced investment costs
- Reduced life cycle costs
- Compliance with the high safety standards commonly required for railway applications

Uniquely fast, uniquely flexible

Wide selection of standard products

Fast, intelligent, flexible. High-availability HIMA systems guarantee reliable and uninterrupted operation of safety-critical railway applications such as signal towers, train tunnels, trains and wagons. HIMA controllers combine one of the world's fastest safety systems with one of the world's fastest safety bus systems: safe**ethernet.**

HIMA offers market-leading products, extensive consulting and exemplary services. For further information and to request product data sheets, visit www.hima.com or call +49 6202 709-593.

Control system structures tailored to requirements

HIMA is at home with all control system structures – centralized or decentralized, redundant or non-redundant. Based on safety technology that's proven worldwide, HIMA offers a variety of TÜV-approved systems to meet requirements for safe and efficient solutions. Remote I/O modules can be connected to the controllers via safe**ethernet** or extended to them with additional inputs and/or outputs.

Proven safety for railway applications

HIMA safety systems are suitable for use at temperatures ranging from -40°C to 70°C and have the robustness required for railway applications. HIMA products meet the requirements for Category 1 Class B in accordance with DIN EN 61373. The HIMatrix® system is certified by TÜV SÜD for use up to the highest safety integrity level, SIL 4, in accordance with CENELEC. Type approval through the German federal rail office is currently under way. The HIMax® system will obtain SIL 4 certification in 2011.

Simple, flexible programming

Function block diagrams and sequential function charts ensure clear and comprehensible programming, including interface programming. Validated function blocks and generic programs reduce testing costs. Third-party components can be integrated with ease.

HIMA systems for the railway sector

HIMatrix®

Safety and speed

- Compact and modular safety controllers as well as remote I/O modules
- Tried and tested safety technology
- Certified for use up to SIL 4 (EN 50126, EN 50128, EN 50129)
- Response time ≤ 20 ms possible
- Communication: Ethernet TCP/UDP, RS485, RS422, RS232
- Communication via safe**ethernet** and many industrial protocols: users can implement their specific protocol

HIMax®

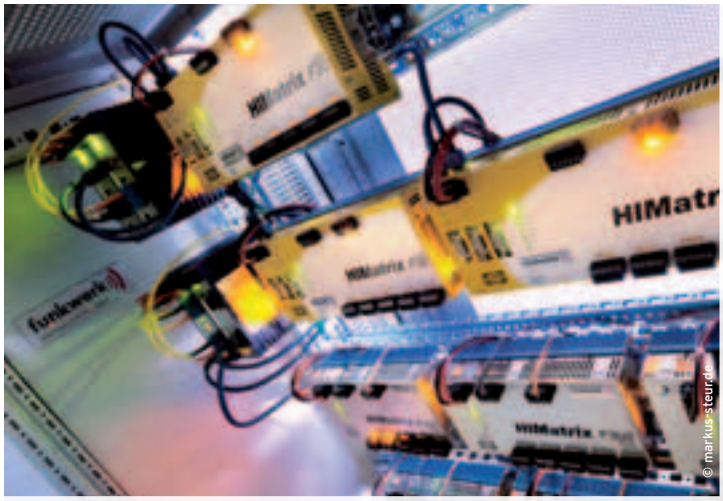
Maximum availability through redundancy

- Uninterrupted, cost-effective system operation with optimal availability, thanks to redundant structure
- Maximum performance ensured by high-performance system components and intelligent system architectures
- Will obtain SIL 4 certification in 2011
- Lifetime configuration flexibility with respect to plant size, response time and fault-tolerance requirements
- Wide range of mechanical concepts

SILworX®

High-end safety engineering

SILworX® is a fully integrated configuration, programming and diagnostic tool. The intuitive user interface reduces user error and accelerates the engineering process. Rapid planning and start-up are guaranteed.



Maximum safety and profitability for rail traffic

40 years of experience in safety technology

HIMA systems protect the assets of the world's major oil and gas, chemical, pharmaceutical and energy-producing companies, as well as systems in mechanical engineering.

We apply specialized knowledge and broad experience in developing innovative, commercial off-the-shelf safety controllers for rail traffic. Our highly qualified application engineers have extensive experience in rail technology projects.

A market-leading company says:
"From a user's perspective, HIMA safety PLCs are particularly attractive because they contribute to the reduction of investment and operating costs in a decisive manner.
It is also good to know that HIMA is one of the world's leading providers and the market leader in Europe."

HIMA. Safety. Nonstop.

It's a philosophy 100 years in the making. It's built on HIMA's singular focus on safety and is proven by decades of technology breakthroughs. It represents our commitment to providing maximum safety and uninterrupted operations. Our goal isn't just to design the world's best safety systems. It's to help keep your business safe and running. No shutdowns. No failures. Maximum uptime. Maximum profitability.

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