

SuccessStory

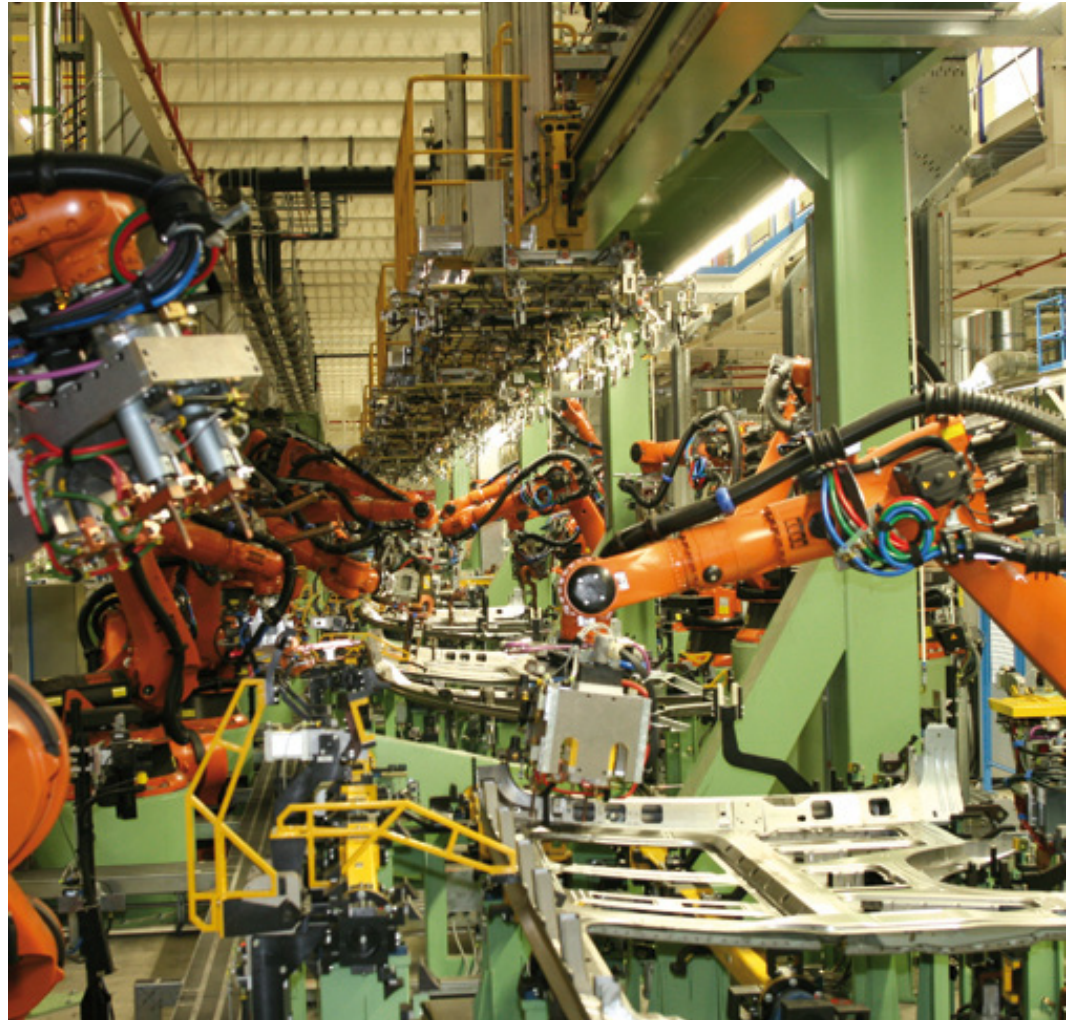
Safety technology for DaimlerChrysler

Project Overview

Branch
Automotive industry

Application
Safety-related monitoring
and shutdown of hazardous
areas

Hardware
• 200 HIMatrix F31



Customer

DaimlerChrysler AG,
Düsseldorf plant, Germany

Project

HIMA supplies extensive safety technology with safeethernet for DaimlerChrysler's Düsseldorf plant

HIMatrix systems with safeethernet are the new standard in production facilities for the Sprinter transporter at DaimlerChrysler's Düsseldorf plant.



SAFETY
NONSTOP

Project Description

DaimlerChrysler is now using HIMatrix systems in its new production facilities at Düsseldorf. The primary reason for this decision was the fact that the HIMA safety controllers are networked via safeethernet, which means they can be easily integrated into the existing production concept of the Sprinter plant. Thanks to the Ethernet technology of the HIMatrix controllers, the existing Ethernet infrastructure can also be used in the safety area for field communication, which avoids expensive parallel wiring.

The HIMatrix systems are used in the body shop area of the latest Sprinter transporter generation. They are responsible for the safe monitoring and shutdown of hazardous areas, for example, where materials handling applications are running or robot cells are in operation. A total of approximately 1,200 HIMA units are used, including 200 safety programmable logic controllers (PLCs) and 1,000 remote I/O modules (SIL3). The HIMA systems process approximately 8,000 safety-related input signals (safety gates, light grids, scanners, roller doors, etc.) as well as approximately 3,000 safety-related output signals (robots, drive units).

At the Düsseldorf plant, seven certified function blocks are used for programming the HIMatrix systems. The function blocks are TÜV certified in compliance with IEC 61508/EN 954 and are suitable for use up to SIL 3/Cat. 4. This means that it is no longer necessary for the user to check the functions, which results in considerable time and cost savings during programming and commissioning.



Overview of Features

- Extensive communication options
- Time and cost savings during programming and commissioning ensured by certified function blocks
- Easy integration into the automation system due to safeethernet
- No expensive parallel wiring for fieldbuses

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