Functional Safety

From concept to certification

hardware development | software development | industrial communication | functional safety | explosion-proof

Hardwareentwicklung | Softwareentwicklung | Industrielle Kommunikation | Funktionale Sicherheit | Explosionsschutz

... where ideas turn into success!

Functional Safety

From concept to certification

Our offering – your benefits

Getting started: Consulting
- Product innovation and business case
- Technology consulting
- Functional Safety Management
- Support with specification creation

Planning: Concept
- Creation of the safety concept
- Feasibility study
- System architecture
- Quality assurance

Implementation: Development
- Hardware and software development
- Prototype manufacture
- Integration testing
- Type testing
- Assistance with production implementation

Completion: Certification
- Continuous support through to certification
- Submission of development documentation relevant to certification

Safety Fieldbuses

PROFIsafe

Safety over EtherCAT

IO-Link SAFETY

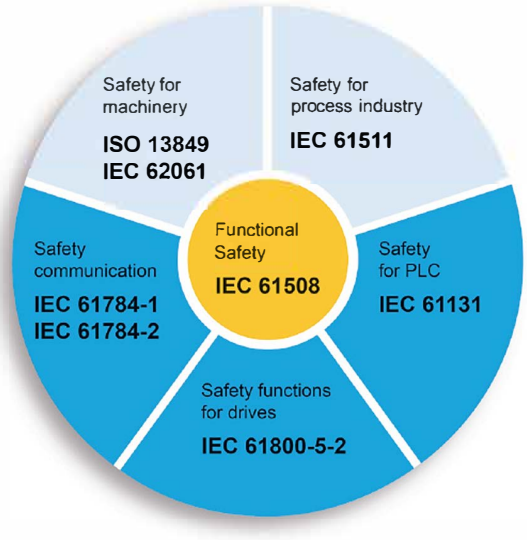
CIP Safety

Expertise in development

Safety drive technology
- Safety option boards with STO and Advanced Safety Functions
- Hiperface DSL, EnDat 2.2, SCS interfaces
- Rotary encoders

Safety control technology
- Controllers
- Decentralized peripherals
- Gateways

Safety sensor technology
- Measurement technology (e.g. pressure, temperature, flow rate)
- Inductive/capacitive/optical sensors



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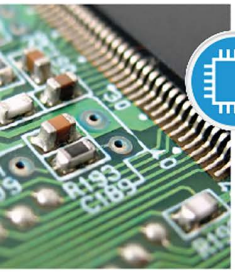
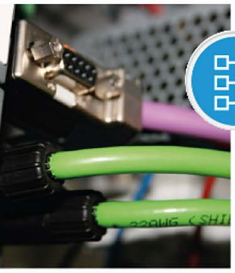
Further products



Hardware development
- Analog circuit technology
- Digital technology
- Miniaturization
- Prototyping
- EMC laboratory

Software development
- Embedded software
- Measurement technology
- Signal processing
- FPGA programming
- Parameterization software



Industrial Communication
- PROFINET
- EtherCAT
- EtherNet/IP
- IO-Link
- HART

Explosion-proof
- IECEx, ATEX, FM, CSA
- Intrinsic Safety Ex ia, ib, ic
- Creation Ex designs
- Support for approval

About MESCO

MESCO is your partner for innovative product development in the area of process automation and factory automation. Our core competencies are hardware and software development for functional safety, explosion proof and industrial communication.

Since 1990, we have been offering our customers worldwide up-to-date interbranch know-how, integrated solutions and a comprehensive service. An honest, transparent partnership-like cooperation is our primary approach.

Put our experience and expertise to use for your products.

MESCO

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