

Safety Engineering

Order No. 2700505

Implementation of functional safety



1 Description

Based on your released documents, we assume responsibility for the implementation of the following tasks for you:

- Safety concept: determining the safety functions as well as SIL and PLr
- Safety planning: creating the safety plan and test specifications for function tests
- Integration planning: selecting safe devices
- Machine planning: creating hardware and software technical specifications, verification of hardware and software technical specifications
- Verification of SIL and PL
- Implementation: programming, parameterization, code simulation
- Test implementation: function test/test log, test report generation, support during startup

Safety aspects

The aim of the Machinery Directive is to reduce the number of accidents that occur when using machinery. This directive therefore requires that the aspect of safety is included in the design and construction of machinery.

Furthermore, manufacturers must also make sure that the technical documentation required by the Machinery Directive has been created. It must also be ensured that the machinery is manufactured and produced in compliance with this technical documentation. The manufacturer of a machine or his authorized representative is responsible for this.

2 Result

The process steps commissioned by you, including the development and verification documentation required for this, will be performed in accordance with the directives and standards that are required in order to achieve the functional safety of machinery. This therefore provides you with a sound basis for maximum legal certainty.

3 Documentation

Verification documents based on standardized document templates for Microsoft Office and/or based on SISTEMA software. The documentation templates contain all the legal and normative aspects for the specific issue of the engineering carried out.

4 Duration and costs

According to time, based on an hourly rate

We will be happy to prepare a non-binding quote for you.

To request this, speak to your personal sales partner directly or contact the headquarters in your country.

5 Requirements

- Basic knowledge of the functional safety of machinery
- All information and data/data sheets relevant to the engineering are promptly made available on request
- In order to determine the safety integrity with SISTEMA, a hardware technical specification with the relevant information or an equipment matrix showing the assignment of equipment for each safety function is required. This data can also be determined or created together during the provision of the service, subject to agreement.
- Current SISTEMA version for evaluating the safety integrity determined
- Microsoft Office for subsequent further processing of the documents created during provision of the service
- Permanent project contact partner

6 Further information

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