Safety@Festo

Evaluation and assessment of safety measures in accordance with EN ISO 13849-1/IEC 61508/IEC 61511/IEC 62061

6 steps for evaluating whether safety measures are sufficient

1. Risk assessment
   Determining the required Performance Level (PL)
   - Specification of needs
   - Determination of significant events
   - Risk analysis
   - Test measures

2. Designated architectures
   Specifications of categories

3. CCF Common Cause Failure/DC
   Determining Diagnostics Coverage
   - Diagnosis of the system
   - Diagnosis of the components
   - Diagnosis of the interface

4. MTTFd Definition of the Mean Time To Failure
   Determining the system’s reliability

5. Entire system – Target: PL > PLr
   Safety of the system as a whole
   - Functional safety of electro-hydraulic/pneumatic/electronic safety-related systems
   - Safety of mechanical systems

   Determining the required Safety Integrity Level (SIL)
   - Determination of the SIL (Safety Integrity Level)
   - Determination of the SIL (Safety Integrity Level)

IEC 61508
IEC 61511
IEC 62061

Safety@Festo – safety-related systems for process industry sectors
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