

IO-Link Safety Policy

The concept of IO-Link safety has been designed and developed according to international standards such as IEC 61508, IEC 61784-3, and ISO 13849 and approved by competent assessment bodies.

In order to prevent and protect the manufacturers and vendors of FS-Masters and FS-Devices from possibly misleading understandings or wrong expectations and negligence actions regarding safety-related developments and applications the following shall be observed and explained in each training, seminar, workshop and consultancy.

Rules:

- Any non-safety-related device automatically will not be applicable for safety-related applications just by using fieldbus or IO-Link communication and a safety communication layer such as in IO-Link safety. The safety technology part of a safety device shall be approved for a Safety Integrity Level (SIL) or Performance Level (PL) suitable for the intended safety functions. The IO-Link safety part shall be implemented and approved for the same SIL/PL or better.
- In order to enable a product for safety-related applications, appropriate development processes according to safety standards shall be observed (see IEC 61508, IEC 62061, ISO 13849) and an assessment from a competent assessment body or authorized manufacturer department shall be achieved.
- The manufacturer/vendor of a safety product is responsible for the correct implementation of the safety communication layer technology, the correctness and completeness of the product documentation and information.
- Supplemental safety-related information to the published "IO-Link safety" specification shall be observed for implementation, test and assessment if applicable. Normally, this information is provided by the working group as response to a change request (CR) within the CR-database that is in state "implementation" and approved by an assessment body. The working group can decide to publish these CRs through a separate "Corrigendum" document for download on the IO-Link website.

IO-Link Community

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