Call for experts for Profiles of FS-Devices (functional safety)

The IO-Link "Smart Sensor Profile" is a tremendous success in automation. Now the achieved standardization supports the exchange of a profile Device from a certain manufacturer/vendor with the profile Device of a different manufacturer/vendor.

The functional safety system extension of IO-Link ("IO-Link safety") is now going to be standardized internationally as IEC 61139-2 and FS-Master and FS-Devices are showing up on the market. It can be expected that many of the FS-Devices will have similar functionality such as emergency stop, two-hand control, light curtain, light barrier, laser scanner, light grid camera, door lock, encoder, pressure, low-voltage switch gear, valve, motor starter, and drive.

Therefore, a new team of the profile working group is looking for experts, who are willing to contribute actively their experience and requirements in this field. Areas of concern may be for example:

- Cooperation with other profile Working Groups (Smart Actuator and Smart Sensor WGs)
- Use Cases and requirements
- Scope and FS-Device classification
- FS-Device exchange across vendors
- Common functions
- Parameter structure
- Alignment with other profiles (Smart Sensor, Smart Actuator, Smart Lighting Profile)
- PLC Function Blocks and Add-on Instructions
- Testability
- Exchange of FS-Devices without changing the FS-Master and safety plc-configuration
- Common structure of cyclic process data and parameters for FS-Device classes/types

All interested member companies are invited to join this working group. Please sign up if you are interested by March 31st, 2021 by sending e-mail request to

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