as well as preconfigured, certified blocks are used for safety programming. The LAD and FBD languages configured in the TIA Portal – due to which your...

Just like standard systems, fail-safe systems are also...
Integrated System for the protection of people and machines

Fail-safe controllers

- SIMATIC Safety Integrated provides a scalable range of safety-related automation products for all safety-related automation tasks.
- Safety technology integrated in the SIMATIC S7-1500 controller for fail-safe automation.

Fail-safe IO

- Distributed field devices from the ET 200 range are also available for fail-safe IO. ET 200 fail-safe ensures fail-safe communication between field devices and the control cabinet.
- Fail-safe I/O is required for fail-safe automation.

Fail-safe communication

- PROFIsafe provides a safe and secure communication infrastructure for fail-safe automation.
- PROFIsafe is the standard for fail-safe communication in industrial automation.

Fail-safe engineering

- The SIMATIC STEP 7 Safety Advanced option (TIA Portal) allows for the easy configuration and programming of safety-related automation tasks.
- The SIMATIC Safety Integrated function block can be used for the programming of safety-related automation tasks.

Fail-safe monitoring

- Safety-related automation tasks can be monitored with the Safety Evaluation Tool (SITRAIN Safety Integrated).
- The Safety Evaluation Tool is an online tool that quickly and safely guides you through the process of safety-related automation.

References

- Application examples are available for various safety-related automation tasks.
- Application examples forfail-safe automation can be downloaded from the website.

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