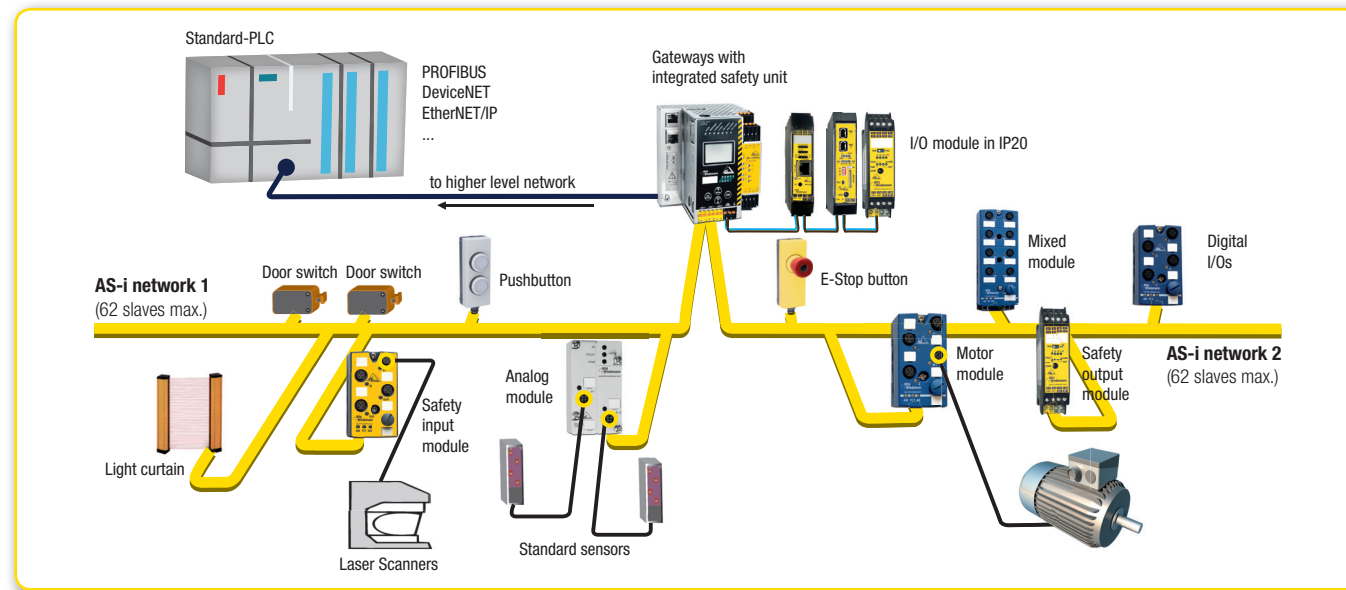
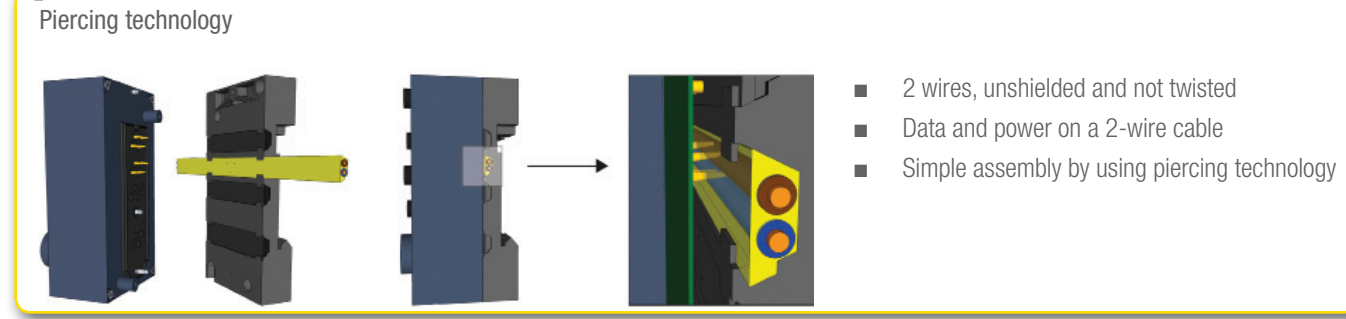
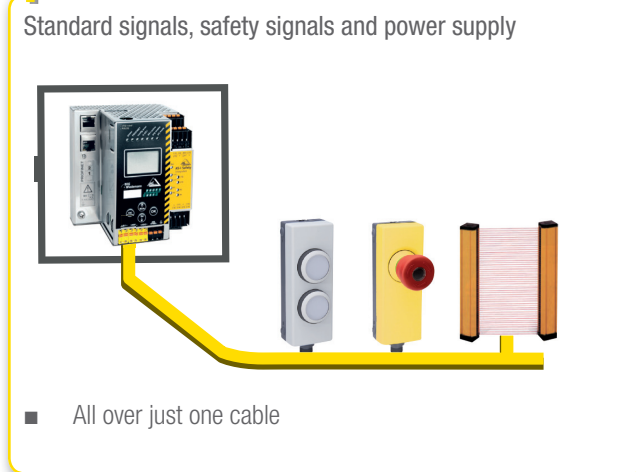
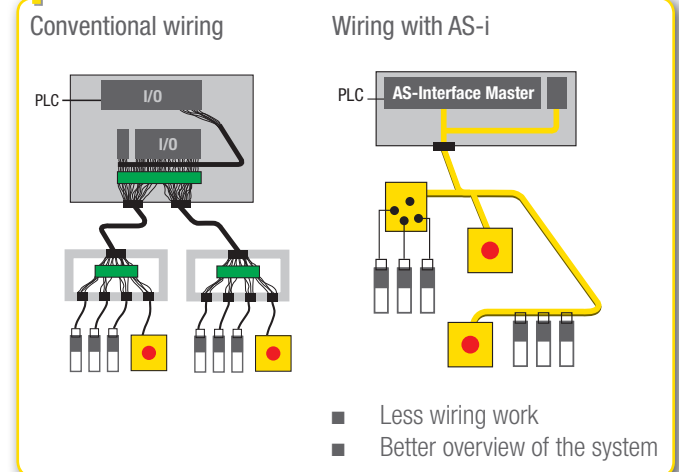


Benefits of AS Interface

AS-i Safety at Work beats other solutions by far



All of our components/systems satisfy the new Machinery Directive 2006/42/EC and are easy to integrate into your documentation/calculation using readily available devices of the Sistema library.



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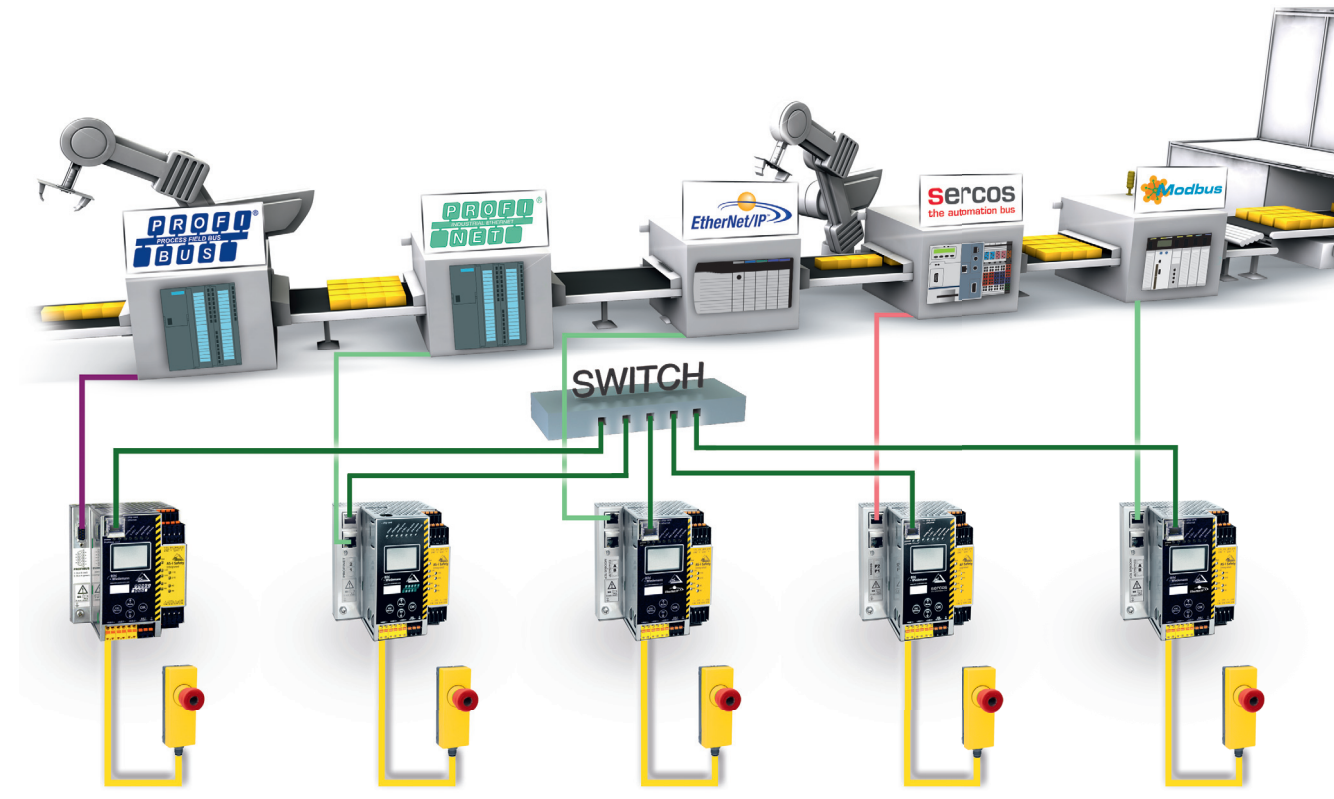
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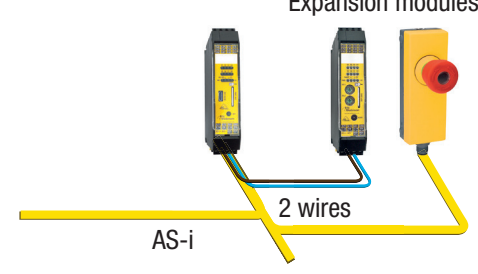
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Safety Technology by Bihl+Wiedemann



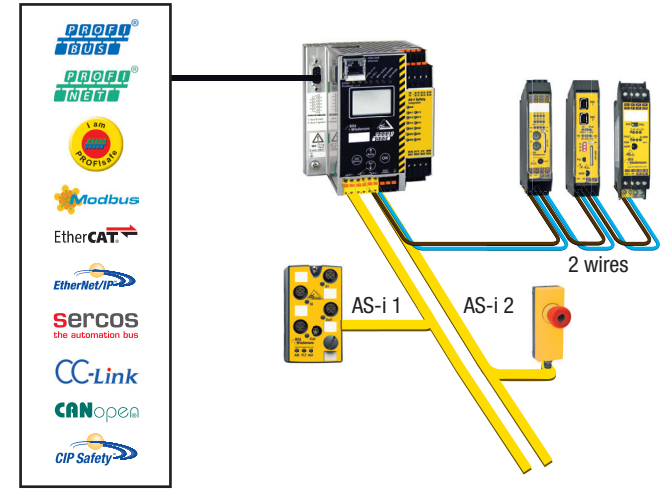
Small Systems

Safety Basic Monitor



With Fieldbus Interface

Gateways with Integrated Safety Monitor



Safe Coupling

Gateways with Safe Link



Safe Controller, Compact Safety Controller Programmable Safety Components, Safety Controller

Safety Basic Monitor

- Configurable via PC software
- USB or Ethernet port for configuration
- Ethernet interface for remote diagnostics and Safe Link
- Release protocol for the safety technology
- 2 safe electronic outputs onboard



- 4 x 2-channel safe inputs can be used as standard inputs and status outputs
- Standstill/speed monitor
- Chip card for easy device exchange
- 22,5 mm width
- Expandable via unshielded, 2-conductor cable
- Up to 31 devices connected over Safe Link

Gateways with integrated Safety Monitor

- Stand-alone: 12 terminals of the integrated Safety Monitor freely configurable, e.g.:
 - as 6 safe outputs plus
 - 3 safe 2-channel inputs, or
 - as 6 safe 2-channel inputs, or
 - as standard I/Os, or
 - as any combination of thereof
- Expandable: up to 62 safe or 496 standard I/Os (Or a combination of them)



- For use in compact or widely distributed systems
- AS-i Power24V-capable for use in compact systems: no additional AS-i power supply needed
- Enhanced diagnostics capability, such as duplicate address detection, integrated earth fault and EMC monitor

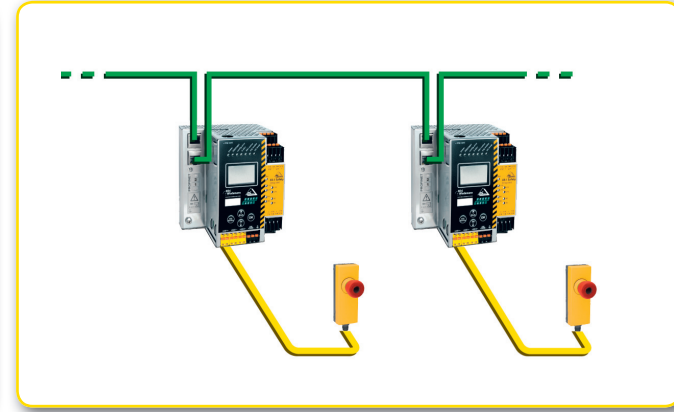
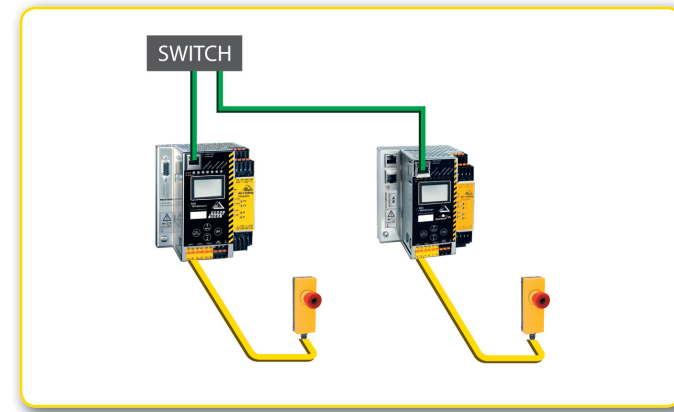


Safe Communication

Safe Link, either over diagnostic or fieldbus interface

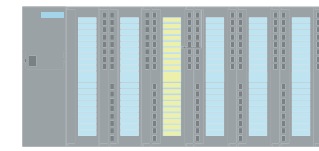
For applications that work with traditional fieldbuses, the exchange of safe information runs over the Ethernet diagnostics interface of the AS-i gateway with integrated safety monitor.

When an industrial Ethernet derivative is being used as the fieldbus, the AS-i networks can when desired be coupled over the fieldbus interface of the Gateways and communication takes place over the already existing Ethernet network.

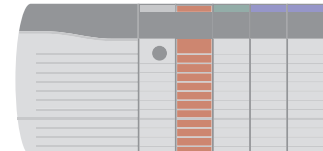


Safety Gateways

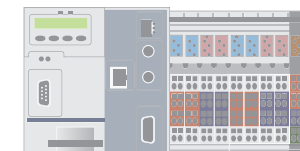
F-CPU



PROFIsafe via PROFINET or PROFIBUS



CIP Safety via EtherNet/IP



CIP Safety via Sercos



In general the safety program runs in the respective safety PLC. The Safety Gateway exchanges both standard I/Os and safe I/Os with the PLC. Optionally, a safety program in the Gateway can also monitor system parts without the safety PLC.

Connection Options

IP20

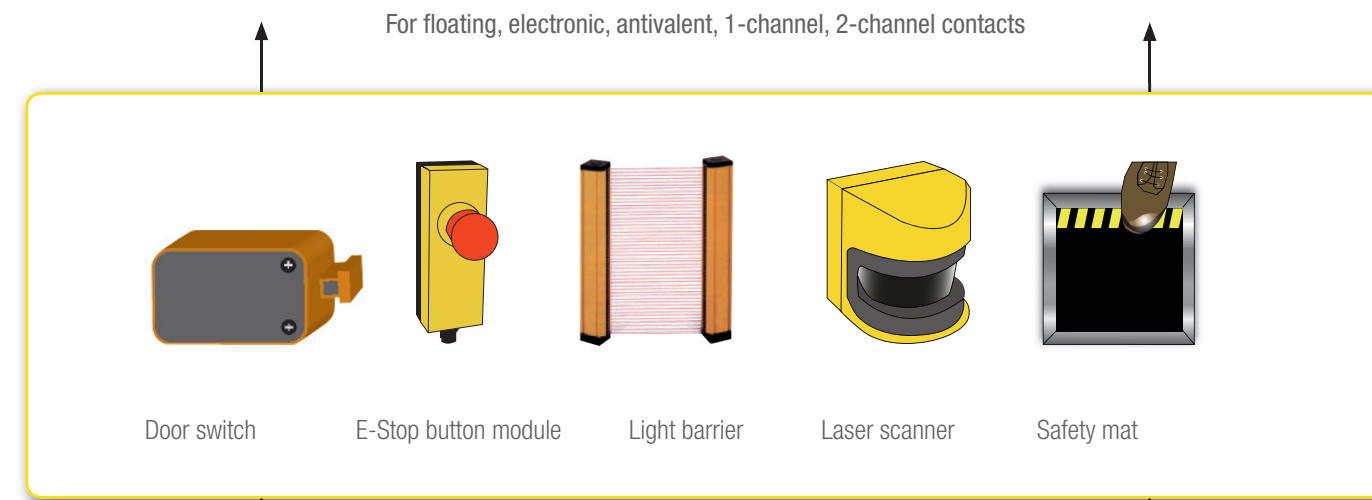


- 8 x 2-channel inputs, 1 (2) outputs
- 4 x 2-channel inputs, 2 (4) outputs
- 1 x 2-channel inputs, 1 (2) outputs
- 2 x 2-channel inputs
- 1 x 2-channel inputs

IP67



- For floating contacts
- For electronic contacts
- 1 x 2-channel input
- 2 x 2-channel inputs



Speed Monitor



- For HTL, sine/cosine, SSI or standard sensors
- Safe speed monitoring
- Safe area monitoring
- Safe stop

Safe analog values



- 2 x 4 to 20 mA
- 2 x 0 to 10 V
- 2 x Pt100

Integrated Modules



- Safety E-STOP button module
- Pushbutton module

There is a wide range of AS-i-capable safety switches available from many manufacturers for the various safety applications including door locks, interlocks, door handle actuators, safety switches for rotatable

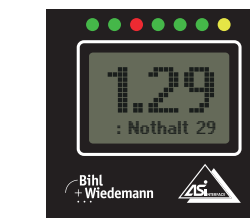
protective devices, position switches, safe sensors, emergency pull-wire switches, E-STOP button modules, safety light barriers, safety light grids, safety light curtains, foot switches, key switches, etc.

Diagnostics

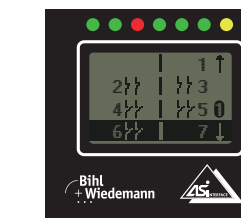
Our strength

Diagnostic options

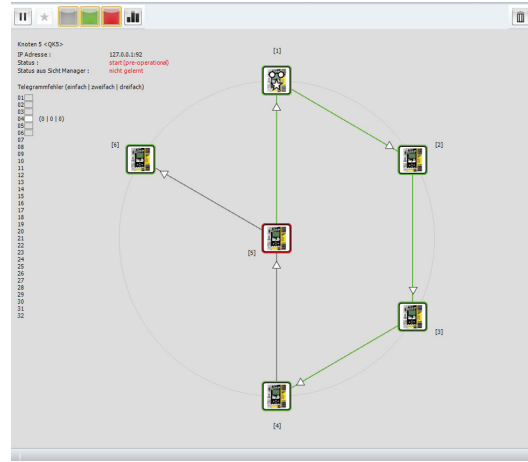
- Instant diagnostics via display
- Detailed diagnostics and history of each state available via display, via fieldbus or via software
- All states can be read via fieldbus without additional effort



Instant diagnostics



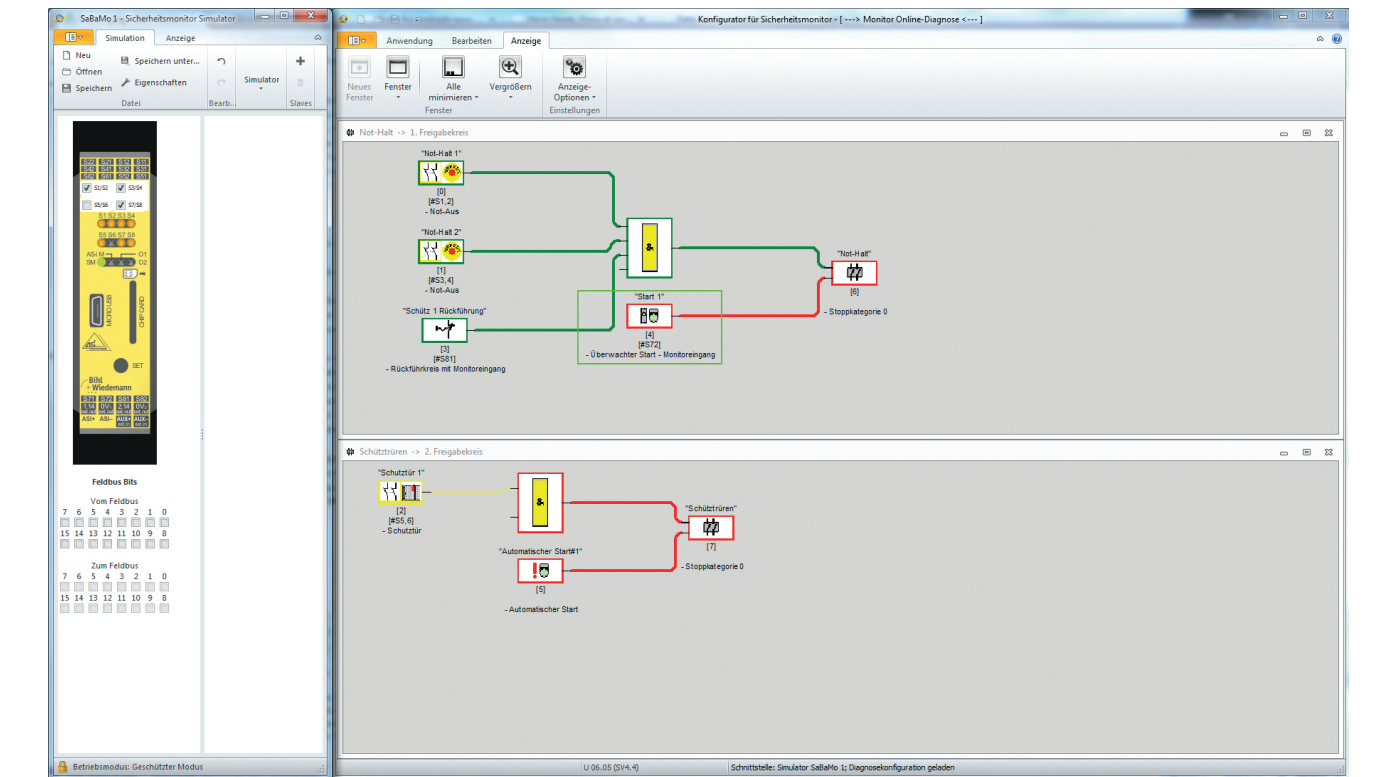
Current switch positions



Safe Link diagnostics

Software

ASIMON 3 G2



- Simple and intuitive diagnostic and configuration software
- Switch-off history
- Configuration of I/O modules and speed monitors
- Integrated simulation function
- Integrated documentation function
- Online diagnostics
- Remote maintenance