The safety standard

The future is wide open.

Be on the safe side!

The fieldbus-independent openSAFETY protocol was tested according to IEC 61784-3 FSCP 13 and approved by national IEC committees representing 27 countries including China, USA and Germany, and is therefore released for international standardization. Because openSAFETY is bus independent, it can be used with all fieldbus or industrial Ethernet systems.

End customers have been requesting a uniform and manufacturer-independent standard for years, and openSAFETY is the response to those requests. It allows increases in productivity that are currently not possible with other safety protocols.

| Sil3 certification by TÜV Rheinland and TÜV Süd |
|---|---|
| Modbus TCP/IP | 22% |
| Ethernet/IP | 30% |
| PROFINET | 28% |
| POWERLINK | 11% |
| EtherCat | 4% |
| Other | 5% |

Connecting Industries: openSAFETY provides one universal safety solution for all industrial sectors

- Automotive OEMs and suppliers
- Transport industry
- Solar energy industry
- Pharmaceutical, cosmetics and medical industry
- Aerospace industry
- Wind energy industry
- Food and beverage industry
- Shipbuilding
- Chemical industry
- Construction industry
- Machine building
- Building automation
- Energy industry
- Leading manufacturers trust in openSAFETY

Market shares of Industrial Ethernet (Source: IMS Research 3rd quarter 2009)

IEC approves openSAFETY as worldwide standard

IEC 61508 SIL3 communications solution

IEC certified by TÜV Rheinland and TÜV Süd

Highlights at a glance:

- one single, uniform standard for all leading fieldbuses
- maximum productivity due to efficient cross-communication
- reduced commissioning and maintenance time
- automatic safety parameterization
- perfectly suited to modular machine concepts
- 100% open safety solution
- fastest IEC 61508 SIL3 communications solution
- no risk involved in investment: TÜV certified conformance test
openSAFETY constitutes a universal safety standard for an entire production line, irrespective of the control system manufacturer and fieldbus standard used in it. The bus-independent openSAFETY standard therefore reduces costs as well as commissioning time for production facilities as a whole.

Benefits for sensor manufacturers
- Free choice of safety sensors
- Faster reaction times
- Tighter safety distances
- Higher productivity
- Easy commissioning and diagnostics
- Facilitation of Machinery Directive implementation

Benefits for machine manufacturers
- Single safety-related standard from selection to plant
- Independence of vendor-specific manufacturers
- Uniform safety-related equipment across the plant
- Minimal commissioning and set-up time
- Independent security through logical modular independence

Benefits for plant operators
- Single safety-related standard from selection to plant
- Independence of vendor-specific manufacturers
- Uniform safety-related equipment across the plant
- Minimal commissioning and set-up time
- Independent security through logical modular independence

openSAFETY: the first open and bus-independent safety standard for all Industrial Ethernet solutions