

Kuhnke FIO Safety

Control Technology

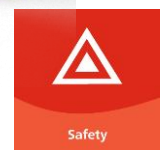
Kuhnke FIO Safety PLC EC

Safety PLC with integrated EtherCAT coupler

Kuhnke FIO Safety PLC EC is a module intended to be used as a head module in EtherCAT® networks. Acting as the FSoE master, it is able to address any FSoE slave including safety I/Os, motion controllers, valve islands and other FSoE equipment. The Safety PLC meets the requirements of IEC 61508 SIL3 and DIN EN ISO 13849 PLe. CODESYS version 3.5 SP16 or higher is used for programming. The CODESYS safety function modules have been certified previously, thus considerably reducing the efforts of developing, verifying and approving a safety application. The main controller's CODESYS environment and the EtherCAT link are used for programming.

Features

- The Safety PLC meets the requirements of IEC 61508 SIL3 and DIN EN ISO 13849 PLe.
- CODESYS version 3.5 SP16 or higher is used for programming.
- SD-card for easy device exchange (service)
- Integrated floating point unit (FPU)
- The main controller's CODESYS environment and the EtherCAT link are used for programming the Safety PLC as well.



Technical Data	Kuhnke FIO Safety PLC EC
Safety protocol	FSoE
Safety standard	IEC 61508 SIL3 and DIN EN ISO 13849-1 PLe
Runtime system	CODESYS RT Safety
Programming tool	CODESYS V3.5 SP16 or higher with integrated safety function modules
Bus interface RJ 45	2 (In/Out)
Power supply E-bus	2 A
Power supply voltage	24 V DC
Electrical interference	EN 61000-6-2/ EN 61000-6-4
Resistance to vibration	EN 60068-2-6
Resistance to shock	EN 60068-2-27
Fieldbus port	EtherCAT® 100 Mbps LVDS: E-bus
Installation / mounting pos.	35 mm DIN rail / horizontal
Signal indication	Status LEDs (EtherCAT, Safety, Power)
Shield	Provided directly by the module
Terminals	spring-assisted connector with mechanical ejector
Ambient conditions	0°C ...+55°C, IP 20
Housing	Plastic shroud over aluminium frame, 25 x 120 x 90 mm
Certifications	CE, cULus, TÜV Rheinland

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