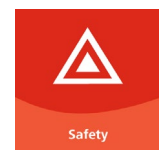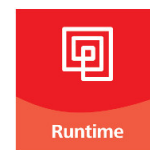| Kuhnke FIO Safety	Control Technology

Kuhnke FIO Safety PLC

Safety PLC

Kuhnke FIO Safety PLC is a module intended to be integrated 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 SP8 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 SP8 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 the Safety PLC as well.

Runtime	Safety

Technical Data	Kuhnke FIO Safety PLC
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 SP5 or higher with integrated safety function modules
E-bus power consumption	200 - 300 mA
Power supply voltage	From bus coupler through E-bus connector
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	-
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